SERVICE MANUAL

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MC-Service

AD233/AD244
AD255R/AD266R

Stereo Amplifier

Sherwood

Specification

AD233

● Amplifier Section

Minimum Continuous Average Power Output Per CH., both channels driven with no more than 0.05% THD.

at 8 ohms, 1KHz 75W
at 8 ohms, 20-20,000Hz 70W

Intermodulation Distortion, 60Hz: 7KHz=4:1 Smpte

70W output into 8 ohms 0.05%

Damping Factor at 1KHz, 8 ohms .. 70

Input Sensitivity for 70W output, 8 ohms at 1 KHz

Phono 2.5mV
Aux/Tuner 150mV

Phono Preamp Input Overload

at 1KHz, 0.1% THD 200mV
at 10KHz, 0.1% THD 850mV

Signal to Noise Ratio, IHF "A" wtd/unwtd

Phono 77/70dB
Aux 98/88dB

Frequency Response

Phono, RIAA 30-20,000Hz ..... ±0.5dB
Aux at 1W, −3dB ..... 5Hz~50KHz

Loudness Contour

at 100Hz ..... +7dB
at 10KHz ..... +3dB

5Band Equalizer Control ..... ±10dB
(60Hz, 250Hz, 1KHz, 4KHz, 16KHz)

Channel Separation at Aux input shorted

100Hz 50dB
1KHz 45dB
10KHz 40dB

Power Consumption ..... 100W(Min 20W, Max 290W)

Amplifier Dimensions(W×H×D) .... 440(W)×100(H)×245(D)mm

Amplifier Weight 7.3kg

NOTE: Design and specifications subject to change without notice for improvements.

AD244

● Amplifier Section

Minimum Continuous Average Power Output Per CH., both channels driven with no more than 0.05% THD.

at 8 ohms, 1KHz 110W
at 8 ohms, 20-20,000Hz 100W

Intermodulation Distortion, 60Hz: 7KHz=4:1 Smpte

100W output into 8 ohms 0.05%

Damping Factor at 1KHz, 8 ohms .. 70

Input Sensitivity for 100W output, 8 ohms at 1KHz

Phono 2.5mV
Aux/Tuner 150mV

Phono Preamp Input Overload

at 1KHz, 0.1% THD 200mV
at 10KHz, 0.1% THD 850mV

Signal to Noise Ratio, IHF "A" wtd/unwtd

Phono 77/70dB
Aux 98/88dB

Frequency Response

Phono, RIAA 30-20,000Hz ..... ±0.5dB
Aux at 1W, −3dB ..... 5Hz~50KHz

Loudness Controur

at 100Hz ..... +7dB
at 10KHz ..... +3dB

5Band Equalizer Control ..... ±10dB
(60Hz, 250Hz, 1KHz, 4KHz, 16KHz)

Channel Separation at Aux input shorted

100Hz 50dB
1KHz 45dB
10KHz 40dB

Power Consumption ..... 145W(Min 20W, Max 390W)

Amplefier Dimensions(W×H×D) .... 440(W)×100(H)×245(D)mm

Amplifier Weight 7.6kg

NOTE: Design and specifications subject to change without notice for improvements.

Specification

AD255R

● Amplifier Section

Minimum Continuous Average Power Output Per CH., both channels driven with no more than 0.05% THD.
at 8 ohms, 1KHz..... 110W
at 8 ohms, 20-20,000Hz..... 100W
Intermodulation Distorting, 60 Hz: 7KHz=4:1 Smpte
100W output into 8 ohms..... 0.05%
Damping Factor at 1KHz,..... 70
8 ohms
Input Sensitivity for 100W output, 8ohms at 1KHz
Phono..... 2.5mV
Aux/Tuner..... 150mV
Phono Preamp Input Overload
at 1KHz, 0.1% THD..... 220mV
at 10KHz, 0.1% THD..... 900mV
Singal to Noise Ratio, IHF "A" wtd/unwtd
Phono..... 77/70dB
Aux(CD/Video)..... 98/88dB
Frequency Response
Phono, RIAA 30-20,000Hz..... ±0.5dB
Aux at 1W, −3dB..... 5Hz~50KHz
Loudness Contour
at 100Hz..... +7dB
at 10KHz..... +3dB
Tone Control
Bass at 100Hz..... ±10dB
Treble at 10KHz..... ±10dB
Channel Separation at Aux input shorted
100Hz..... 50dB
1KHz..... 45dB
10KHz..... 40dB
Power Consumption..... 148W(MIN 26W, Max 390W)
Amplifier Dimensions(W×H×D). 440(W)×100(H)×245(D)mm
Amplifier Weight..... 8kg

● Commander Section

Remote Control Functions..... Totally 23 buttons
Remote Control Technics..... 32 bits pulse code modulated infrared beam
Distance of Remote Control..... 10meters minimum
Operating Angle..... 30° max. from right front of the IR receiver
Type of Dry Battery..... 2X UM-3, size AA or R6, 1.5V (Not included)

NOTE: Design and specifications subject to change without notice for improvements.

AD266R

● Amplifier Section

Minimum Continuous Average Power Output Per CH., both channels driven with no more than 0.05% THD
at 8 ohms, 1KHz..... 130W
at 8 ohms, 20-20,000Hz..... 120W
Intermodualation Distortion, 60Hz: 7KHz=4:1 Smpte
120W output into 8 ohms..... 0.05%
Damping Factor at 1KHz,..... 70
8 ohms
Input Sensitivity for 120W output, 8 ohms at 1KHz
Phone..... 2.5mV
Aux /Tuner..... 150mV
Phono Preamp Input Overoad
at 1KHz, 0.1% THD..... 220mV
at 10KHz, 0.1% THD..... 900mV
Singnal to Noise Ratio, IHF "A" wtd/unwtd
Phono..... 77/70dB
Aux(CD/Video)..... 98/88dB
Frequency Response
Phono, RIAA 30-20,000Hz..... ±0.5dB
Aux at 1W, −3dB..... 5Hz~50KHz
Loudness Contour
at 100Hz..... +7dB
at 10KHz..... +3dB
Tone Control
Bass at 100Hz..... ±10dB
Treble at 10KHz..... ±10dB
Channel Separation at Aux input shorted
100Hz..... 50dB
1KHz..... 45dB
10KHz..... 40dB
Power consumption..... 160W(Min 26W, Max 430W)
Amplifier Dimension(W×H×D)...440(W)×100(H)×245(D)mm
Amplifier Weight..... 9.1kg

● Commander Section

Remote Control Functions..... Totally 25 buttons
Remote Control Technics..... 32bits pulse code modulated infrared beam
Distance of Remote Control..... 10meters minimum
Operating Angle..... 30°max. from right front of the IR receiver
Type of Dry Battery..... 2X UM-3, size AA or R6, 1.5V (Not included)

NOTE: Design and specifications subject to change without notice for improvements.

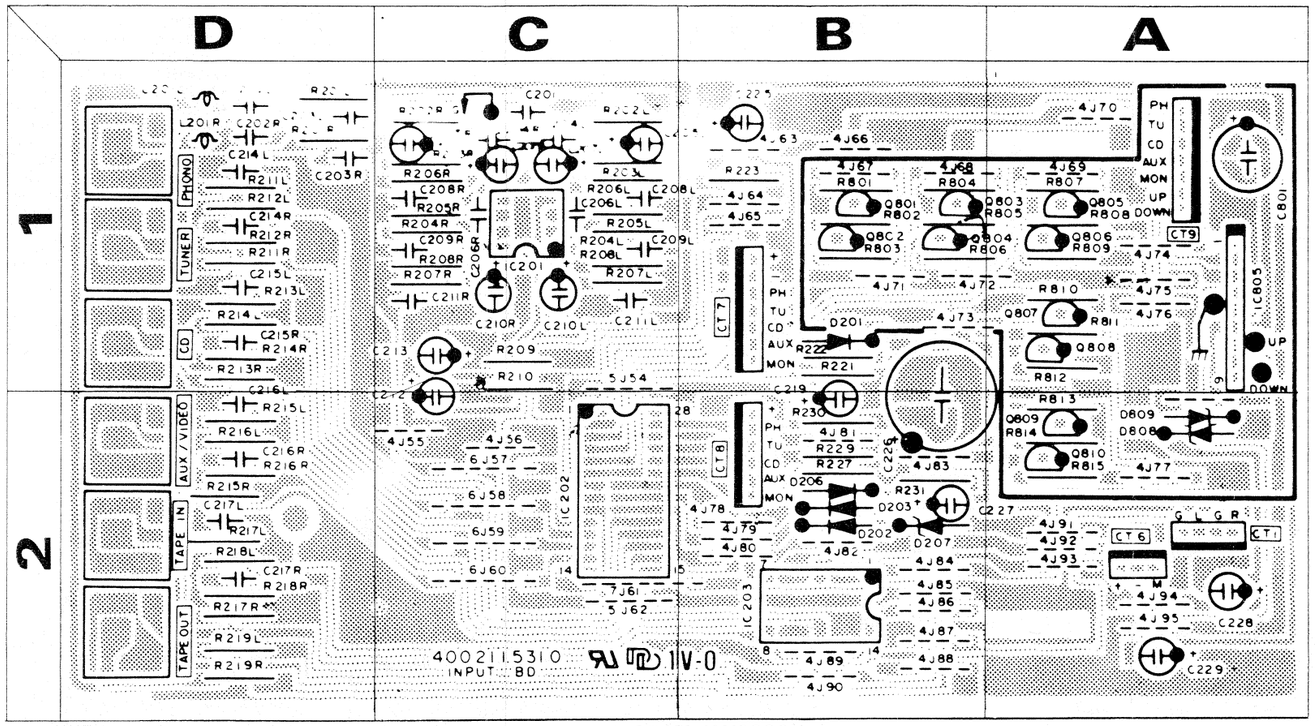
Parts List & Top View of P.C Boards

INPUT BOARD 4002115310 (AD266R/AD255R/AD244/AD233)

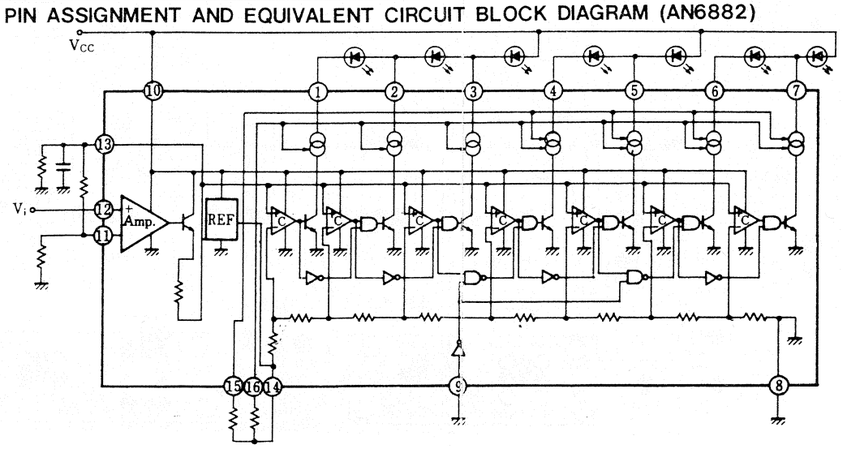
Ref No.	Parts No.	Description	Position	Remark
• IC				
IC201	2168020102	IC NJM 2043DD	C1	
IC202	2138017107	IC LC 7816	C2	
IC203	2138017108	IC LC4966	B2	
IC805	2168022107	IC BA6208	A1	
				for AD266R, AD255R ONLY
• TRANSISTOR				
Q801, Q803	2008206105	KTA 1015Y	B1	for AD266R, AD255R ONLY
Q805, Q807			A1	for AD266R, AD255R ONLY
Q809			A2	for AD266R, A D255R ONLY
Q802, Q804	2008606104	KTC 1815Y	B1	for AD266R, AD255R ONLY
Q806, Q808			A1	for AD266R, AD255R ONLY
Q810			A2	for AD266R, AD255R ONLY
				for AD266R, AD255R ONLY
• DIODE				
D201	2058306101	IN 4148	B1	
D202, D203			B2	
D206			B2	
D207	2058513105	Zener RD 6.2EB2	B2	
D808, D809	2058513124	Zener RD5.6FB2	A2	
• COIL				
L201L/R	2648601470	Inductor 50μH	D1	for FTZ ONLY
• RESISTOR				
R201L/R	3069102270	C.F 1K ohm ¼WJ	D1	
R211L/R			D1	
R213L/R			D1	
R215L/R			D2	
R217L/R			D2	
R219L/R			D2	
R212L/R	3069753270	C.F 75K ohm ¼WJ	D1	for FTZ ONLY
R214L/R			D1	for FTZ ONLY
R216L/R			D2	
R218L/R			D2	
R202L/R	3069104270	C.F 100K ohm ¼WJ	C1	
R208L/R			C1	
R203L/R	3069913270	C.F 91K ohm ¼WJ	C1	
R204L/R	3069564270	C.F 560K ohm	C1	
R205L/R	3069433270	C.F 43K ¼WJ	C1	
R206L/R	3069821270	C.F 820 ohm ¼WJ	C1	
R207L/R	3069102270	C.F 1K ohm ¼WJ	C1	
R209, R210	3069101270	C.F 100 ohm ¼WJ	C1	
R221	3069563270	C.F 56K ohm ¼WJ	B1	
R222	3069102270	C.F 1K ¼WJ	B1	
R223	3069224270	C.F 220K ohm ¼WJ	B1	
R227	3069273270	C.F 27K ¼WJ	B2	
R229	3069103270	C.F 10K ohm ¼WJ	B2	
R230	3069822270	C.F 8.2K ohm ¼WJ	B2	
R231	3069272270	C.F 2.7K ¼WJ	B2	
R801 R802	3069123270	C.F 12K ohm ¼WJ	B1	for AD266R, AD255R ONLY
R803, R804			B1	for AD266R, AD255R ONLY
R805, R806			B1	for AD266R, AD255R ONLY
R807, R808			B1	for AD266R, AD255R ONLY
R809, 810			A1	for AD266R, AD255R ONLY
R811, R812			A1	for AD266R, AD255R ONLY
R813, R814			A2	for AD266R, AD255R ONLY
R815			A2	for AD266R, AD255R ONLY
• CAPACITOR				
C201	3509473530	Ceramic 0.047μF/50WV	C1	
C202L/R	3579220130	Ceramic 22pF/50WV	D1	for FTZ ONLY
C203L/R	3579680130	Ceramic 68pF/50WV	D1	
C204L/R	3570100030	Ceramic 10pF/50WV	C1	
C205L/R	3479210061	Elect 10μF/35WV	C1	
C206L/R	3579222530	Ceramic 2200pF/50WV	C1	
C207L/R	3479247021	Elect 47μF/10WV	C1	
C208L/R	3679182120	Mylar 0.0018μF/100WV	C1	
C209L/R	3679562120	Mylar 0.0056μF/100WV	C1	
C210L/R	3479233871	Elect 0.33μF/50WV	C1	
C211L/R	3679522120	Mylar 0.0015μF/100WV	C1	
C212, C213	3479222041	Elect 22μF/25WV	C1	
C214L/R	3579471130	Ceramic 470pF/50WV	D1	for FTZ ONLY
C215L/R			D1	for FTZ ONLY
C216L/R			D2	for FTZ ONLY
R217L/R			D2	for FTZ ONLY
C219	3479215871	Elect 0.15μF/50WV	B2	
C225	3479210971	Elect 1μF/50WV	B1	
	3479222971	Elect 2.2μF/50WV	B1	for AD233 ONLY

Re fNo.	Parts No.	Description	Position	Remark
C226	3479222241	Elect 2200μF/25WV	B2	
C227	3479222971	Elect 2.2μF/50WV	B2	
	3479210061	Elect 10μF/35WV	B2	for AD233 ONLY
C228, C229	3479222041	Elect 22μF/25WV	A2	
C801	3409247131	Elect 470μF/16WV	A1	

INPUT BOARD 4002115310



PIN ASSIGNMENT AND EQUIVALENT CIRCUIT BLOCK DIAGRAM (AN6882)



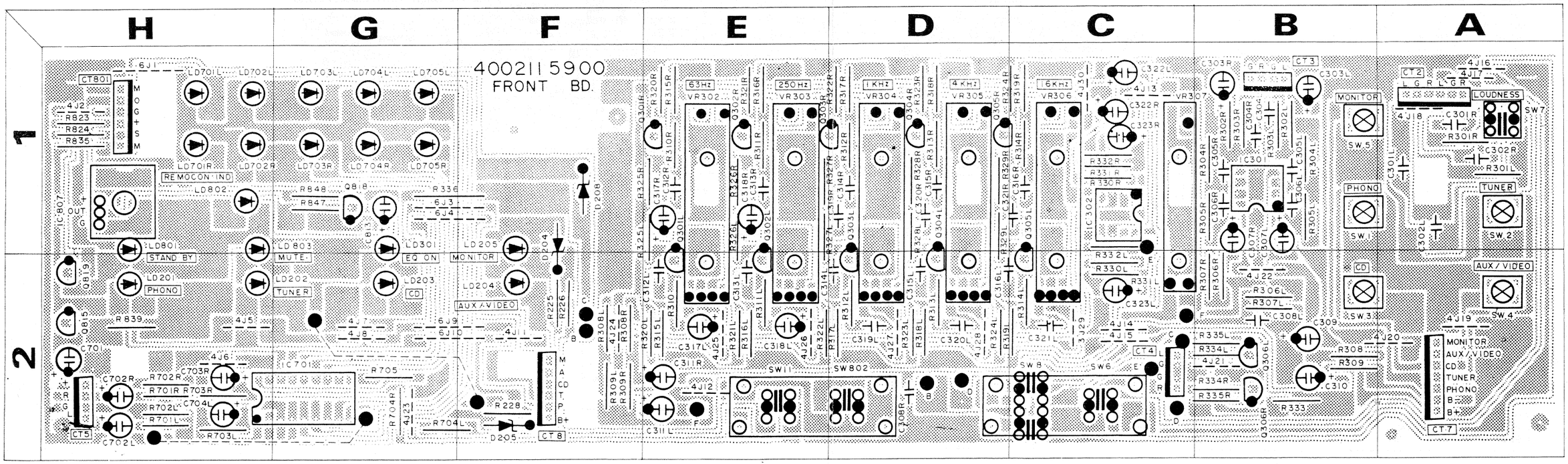
MC-Service

Parts List & Top View of P.C Board

FRONT BOARD 4002115900 (AD255R)

Ref No.	Parts No.	Description	Position	Remark
• IC				
IC301, IC302	2168220103	IN NJM 4560D	B1/C1	
IC701	2168010120	IC AN 6888	G2	
IC807	2138000114	W IC BX 1317	H1	
• TRANSISTOR				
Q301L/R	2008606104	KTC 1815Y	E2/E1	
Q302L/R			E2/E1	
Q303L/R			D2/D1	
Q304L/R			D2/D1	
Q305L/R			C2/C1	
Q306L/R	2008610102	2SD 1302S	B2	
Q815, Q819	2008606104	KTC 1815Y	H2	
Q818	2008206105	KTA1015Y	G1	
• DIODE				
D204, D205	2058513122	Zener RD 11EB3	F1/F2	
D208	2058513100	Zener RD 3.3EB1	F1	
LD201	2308220326	LED SLV 56MC3	H2	
LD202			H2	
LD203			G2	
LD204			F2	
LD205	2308220507	LED SLV 56DC3	F2	
LD301			G2	
LD801			H2	
LD803			H2	
LD802	2308220109	LED SLR 54URC3	H1	
LD701L/R	2308220507	LED SLV 56DC3	H1	
LD702L/R			H1	
LD703L/R			G1	
LD704L/R			G1	
LD705L/R			G1	
• RESISTOR				
R225	3069103270	C.F 10K ohm ¼WJ	F2	
R226	3069152270	C.F 1.5K ohm ¼WJ	F2	
R228	3069122270	C.F 1.2K ohm ¼WJ	F2	
R301L/R	3069562270	C.F 5.6K ohm ¼WJ	A1	
R302L/R	3069102270	C.F 1K ohm ¼WJ	B1	
R304L/R			B1	
R303L/R	3069154270	C.F 150K ohm ¼WJ	B1	
R307L/R			B2	
R305L/R	3069512270	C.F 5.1K ohm ¼WJ	B1	
R306L/R	3069102270	C.F 1K ohm ¼WJ	B2	
R308, R309	3069470270	C.F 47 ohm ¼WJ	B2	
R308L/R	3069472270	C.F 4.7K ohm ¼WJ	F2	
R309L/R	3069154270	C.F 150K ¼WJ	F2	
R310L/R	3069122270	C.F 1.2K ohm ¼WJ	E2	
R311L/R			E1	
R312L/R			D2	
R313L/R			D1	
R314L/R			C2/C1	
R315L/R	3069123270	C.F 12K ohm ¼WJ	E2	
R316L/R			E1	
R317L/R			D2	
R318L/R			D1	
R319L/R			C2/C1	
R320L/R	3069331270	C.F 330 ohm ¼WJ	E2	
R321L/R			E1	
R322L/R			D2	
R323L/R			D1	
R324L/R			D2/D1	
R325L/R	3069683270	C.F 68K ohm ¼WJ	E2	
R326L/R			E1	
R327L/R			D2	
R328L/R			D1	
R329L/R			D2/D1	
R330L/R	3069472270	C.F 4.7K ohm	C2/C1	
R331L/R	3069102270	C.F 1K ohm ¼WJ	C2/C1	
R332L/R	3069154270	C.F 150K ohm ¼WJ	C2/C1	
R333	3069683270	C.F 68K ohm ¼WJ	B2	
R334L/R	3069101270	C.F 100 ohm ¼WJ	B2	
R335L/R	3069332270	C.F 3.3K ohm ¼WJ	B2	
R336	3069102270	C.F 1K ohm ¼WJ	G1	
R701L/R	3069393270	C.F 39K ohm ¼WJ	H2	
R702L/R	3069821270	C.F 820 ohm ¼WJ	H2	
R703L/R	3069103270	C.F 10K ohm ¼WJ	H2	
R704L/R	3069151270	C.F 150 ohm ¼WJ	G2	
R705	3069622270	C.F 6.2K ohm ¼WJ	G2	
R823	3069181270	C.F 180 ohm ¼WJ	H1	
R824, R825	3069123270	C.F 12K ohm ¼WJ	H1	
R839	3069102270	C.F 1K ohm ¼WJ	H2	
R847	3069683270	C.F 68K ohm ¼WJ	G1	
R848	3069151270	C.F 150 ohm ¼WJ	G1	
• CAPACITOR				
C301L/R	3579151130	Ceramic 150pF/50WV	A1	
C302L/R	3679393120	Mylar 0.039μF/100WV	A1	
C303L/R	3658105201	T 1μF/16WV	B1	
C304L/R	3579101130	Ceramic 100pF/50WV	B1	
C305L/R	3579331130	Ceramic 330pF/50WV	B1	
C306L/R			B1	
C307L/R	3479247971	Elect 4.7μF/50WV	B1	
C308L/R	3579102530	Ceramic 1000pF/50WV	B2/D2	
C309, C310	3479222041	Elect 22μF/25WV	B2	
C311L/R	3479247971	Elect 4.7μF/50WV	E2	
C312L/R	3679393120	Mylar 0.039μF/100WV	E2/E1	
C313L/R	3679123120	Mylar 0.012μF/100WV	E2/E1	
C314L/R	3679392120	Mylar 0.0039μF/100WV	D2/D1	
C315L/R	3679122120	lar 0.0012μF/100WV	D2/D1	
C316L/R	3579391130	Ceramic 390pF/50WV	C2/C1	
C317L/R	3479222971	Elect 2.2μF/50WV	E2/E1	
C318L/R	3479247871	Elect 0.47μF/50WV	E2/E1	
C319L/R	3679683120	Mylar 0.068μF/100WV	D2/D1	
C320L/R	3679153120	Mylar 0.015μF/100WV	D2/D1	
C321L/R	3679392120	Mylar 0.0039μF/100WV	C2/C1	
C322L/R	3479247971	Elect 4.7μF/50WV	C1	
C323L/R			C2/C1	
C701	3479210061	Elect 10μF/35WV	H2	
C702L/R	3479247871	Elect 0.47μF/50WV	H2	
C703L/R	3479247971	Elect 4.7μF/50WV	H2	
C813	3479247871	Elect 0.47μF/50WV	G1	

FRONT BOARD 4002115900



Parts List & Top View of P.C Boards

SP SWITCH BOARD 4002115330 (AD266R/AD255R/AD244/AD233)

Ref No.	Parts No.	Description	Position	Remark
• RESISTOR				
R419L/R	3069220270	C.F 22 ohm 1/4WJ		
R420L/R				
R421L/R	3039561572	C.F 560 ohm 2WJ		
• CAPACITOR				
C412L/R	3679472120	Mylar 0.047μF/100WV		
C415L/R	3579222530	Ceramic 2200pF/50WV		for FTZ ONLY

SP JACK BOARD 4002115350 (AD266R/AD255R/AD244/AD233)

Ref No.	Parts No.	Description	Position	Remark
• CAPACITOR				
R424L/R	3069209270	C.F 2 ohm 1/4WJ		
C413L/R	3509473530	Ceramic 0.047μF/50WV		

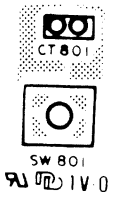
FUSE BOARD 4002115360 (AD244/AD233)

Ref No.	Parts No.	Description	Position	Remark
• CAPACITOR				
C611	3549472407	Capamic 0.0047μF/400VAC		
• FUSE				
F601	5508213133	Fuse STD 6A		for AD244/AD233 UL/CSA ONLY
	5508303034	Fuse T 5A		for EUROPE ONLY
	5508303234	Fuse T 6.3A		for AD244-EUROPE ONLY

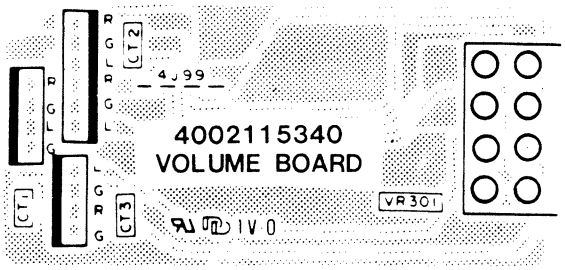
TACT S.W BOARD 4002115370

VOLUME BOARD 4002115340 (AD266R/AD255R/AD244/AD233)

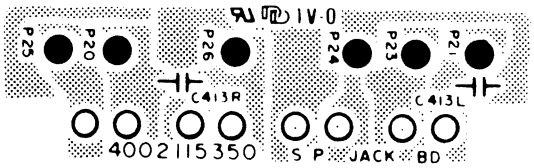
TACT SWITCH BOARD 4002115370



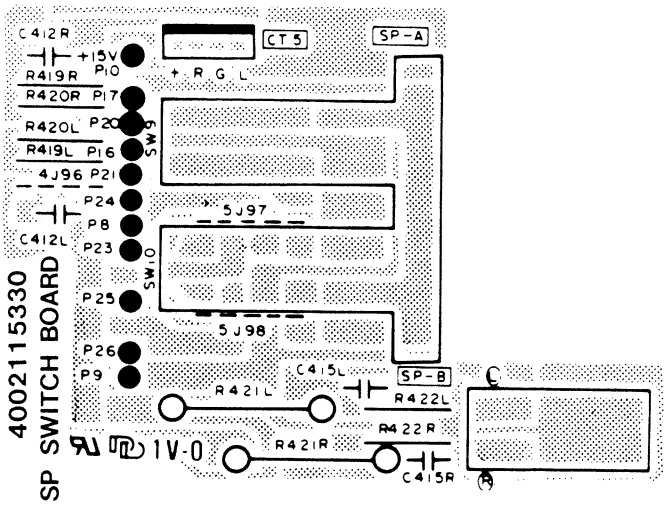
VOLUME BOARD 4002115340



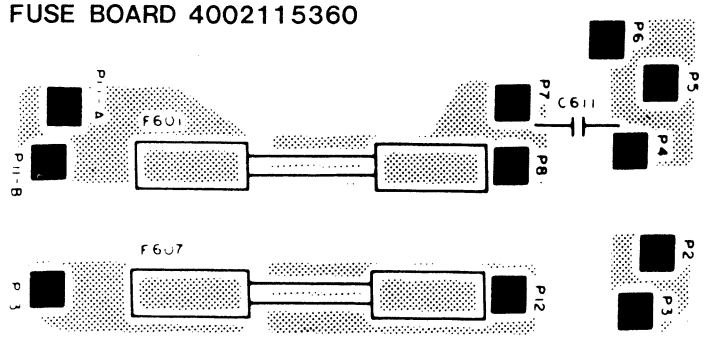
SP JACK BOARD 4002115350



SP SWITCH BOARD 4002115330



FUSE BOARD 4002115360

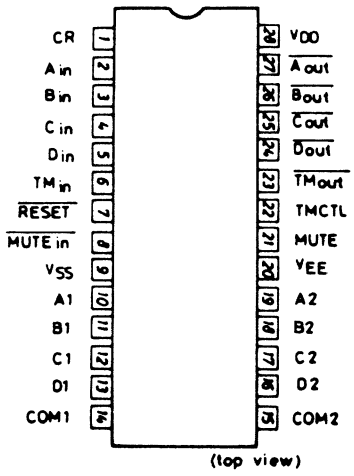


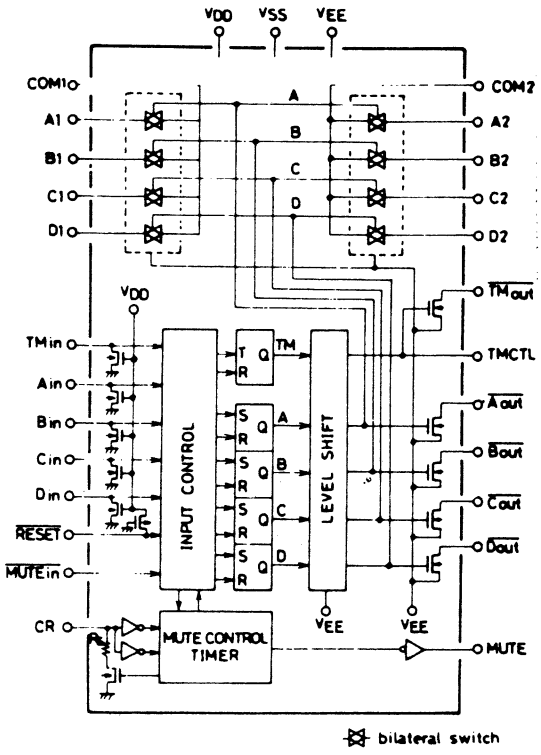
Parts List & Top View of P.C Boards

CHASSIS MTG (AD266R/AD255R/AD244/AD233)

Ref No.	Parts No.	Description	Position	Remark
• TRANS				
	2828043001	POWER TRANSFORMER		for AD266R UL/IC ONLY
	2828044701			for AD266R EUROPE ONLY
	2828044801			for AD266R DOM ONLY
	2828045501			for AD255R, AD244 UL/IC ONLY
	2828042901			for AD233 UL/IC ONLY
	2828044501			for AD233 EUROPE ONLY
• DIODE				
D601	2058100109	Diode RECT BR252		for AD266R, AD255R, AD244 ONLY
• FUSE				
F601	5508213333	STD 7A/250V		for AD266R UL/CSA ONLY
	5508303234	T 6.3A/250V		for AD266R, AD255R EUROPE ONLY
F801	5508111231	S.B 0.25A/250V		for AD266R, AD255R UL/CSA ONLY
	5508301134	T200mA/250V		for EUROPE ONLY
• CAPACITOR				
C611, C612	3609104140	Mylar 0.1μF/200V		for AD266R, AD255R, AD244 FTZ ONLY

PIN ASSIGNMENT AND EQUIVALENT CIRCUIT BLOCK DIAGRAM (LC7816)





Parts List & Top View of P.C Boards

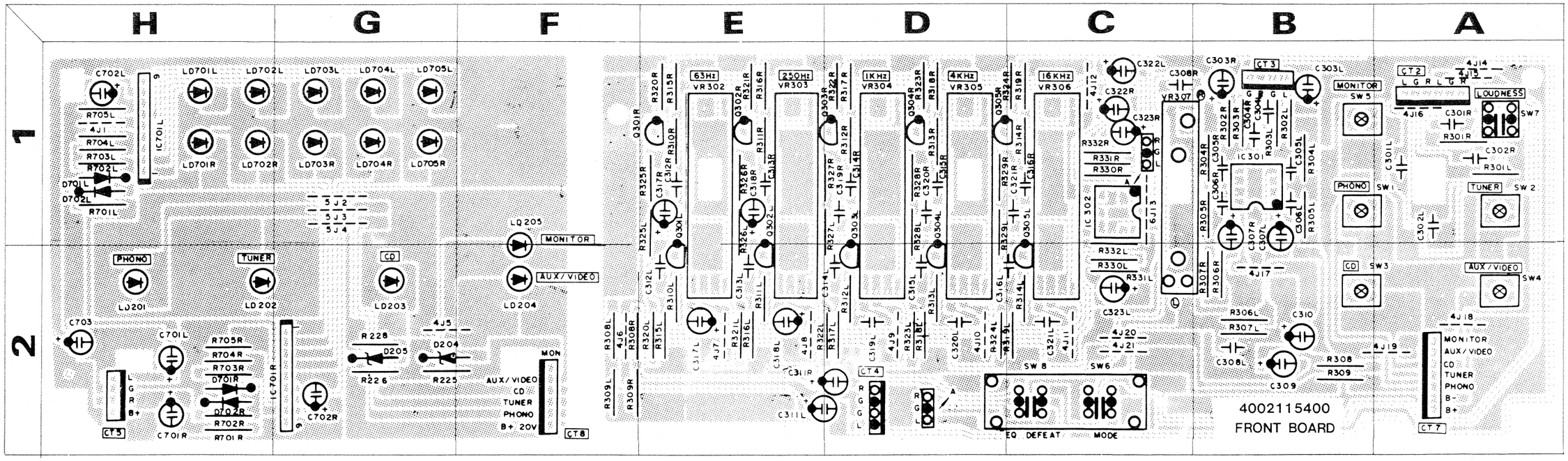
FRONT BOARD 4002115400 (AD244/233)

Ref No.	Parts No.	Description	Position	Remark
• IC				
IC301,IC302	2168220103	IC NJM 4560D	B1/C1	
IC701L/R	2168200106	IC KA 2284	H1/G2	
• TRANSISTOR				
Q301L/R	2008606104	TR KTC 1815Y	E2/E1	
Q302L/R			E2/E1	
Q303L/R			D2/D1	
Q304L/R			D2/D1	
Q305L/R			C2/C1	
• DIODE				
D204	2058513122	Zener RD 11EB3	G2	
D205			G2	
D701L/R	2058010100	Diode IN 60	H1/H2	
D702L/R			H1/H2	
LD201	2308220326	LED SLV 56MC3	H2	
LD202			H2	
LD203			G2	
LD204			F2	
LD205	2308220507	LED SLV 56DC3	F2	
LD701L/R			H1	
LD702L/R			H1	
LD703L/R			G1	
LD704L/R			G1	
LD705L/R			G1	
• RESISTOR				
R301L/R	3069123270	C.F 12K ohm ¼WJ	A1	
R302L/R	3069102270	C.F 1K ohm ¼WJ	B1	
R304L/R			B1	
R306L/R			B2	

Ref No.	Parts No.	Description	Position	Remark
R331L/R			C2/C1	
R303L/R	3069154270	C.F 150K ohm ¼WJ	B1	
R307L/R			B2	
R305L/R	3069512270	C.F 5.1K ohm ¼WJ	B1	
R315L/R			E2	
R316L/R			E1	
R317L/R			D2	
R318L/R			D1	
R319L/R			C2/C1	
R320L/R	3069271270	C.F 270 ohm ¼WJ	E2	
R321L/R			E1	
R322L/R			D2	
R323L/R			D1	
R324L/R			D2/C1	
R310L/R	3069122270	C.F 1.2K ohm ¼WJ	E2	
R311L/R			E1	
R312L/R			D2	
R313L/R			D1	
R314L/R			C2/C1	
R325L/R	3069683270	C.F 68K ohm ¼WJ	E1	
R326L/R			E1	
R327L/R			D1	
R328L/R			D1	
R329L/R			D1	
R331L/R	3069472270	C.F 4.7K ohm ¼WJ	F2	
R332L/R	3069154270	C.F 150K ohm ¼WJ	F2	
R330L/R	3069472270	C.F 4.7K ohm ¼WJ	C2/C1	
R308, R309	3069470270	C.F 47 ohm ¼WJ	B2	
R225	3069103270	C.F 10K ohm ¼WJ	F2	
R226	3069152270	C.F 1.5K ohm ¼WJ	F2	
R228	3069122270	C.F 1.2K ohm ¼ WJ	F2	
R701L/R	3069183270	C.F 18K ohm ¼WJ	H1/H2	for AD233 ONLY
	3069243270	C.F 24K ohm ¼WJ	H1/H2	for AD244 ONLY
R702L/R	3069150270	C.F 15 ohm ¼WJ	H1/H2	

Ref No.	Parts No.	Description	Position	Remark
R703L/R	3069103270	C.F 10K ohm ¼WJ	H1/H2	
R705L/R			H1/H2	
R704L/R	3069512270	C.F 5.1K ohm ¼WJ	H1/H2	
• CAPACITOR				
C301L/R	3579331130	Ceramic 330pF/50WV	A1	
C302L/R	3579393120	Mylar 0.039μF/100WV	A1	
C303L/R	3658105201	T 1μF/16WV	B1	
C304L/R	3579101130	Ceramic 100pF/50WV	B1	
C305L/R	3579331130	Ceramic 330pF/50WV	B1	
C306L/R			B1	
C307L/R	3479247971	Elect 4.7μF/50WV	B1	
C308L/R	3579102530	Ceramic 1000pF/50WV	B2/ C1	
C309, C310	3479222041	Elect 22μF/25WV	B2	
C311L/R	3479247971	Elect 4.7μF/50WV	D2	
C312L/R	3679393120	Mylar 0.039μF/100WV	E2/E1	
C313L/R	3679123120	Mylar 0.012μF/100WV	E2/E1	
C314L/R	3679392120	Mylar 00.039μF/100WV	D2/D1	
C315L/R	3679122120	Mylar 0.0012μF/100WV	D2/D1	
C316L/R	3579391130	Ceramic 390pF/50WV	C2/C1	
C317L/R	3479222971	Elect 2.2μF/50WV	E2/E1	
C318L/R	3479247871	Elect 0.47μF/50WV	E2/E1	
C319L/R	3679683120	Mylar 0.068μF/100WV	D2/D1	
C320L/R	3679153120	Mylar 0.015μF/500WV	D2/D1	
C321L/R	3679332120	Mylar 0.0033μF/100WV	C2/C1	
C322L/R	3479247971	Elect 4.7μF /50WV	C1	
C323L/R			C2/C1	
C701L/R	3479247871	Elect 0.47μF/50WV	H2	
C702L/R	3479247971	Elect 4.7μF/50WV	H1/G2	
C703	3479210061	Elect 10μF/35WV	H2	

FRONT BOARD 4002115400



Parts List & Top View of P.C Boards

MAIN BOARD 4002115300 (AD266R/AD255R/AD244/AD233)

Ref No.	Parts No.	Description	Position	Remark
• TRANSISTOR				
Q401L/R	2008610102	ZSD 1302S	A2/A1	
Q402L/R	2008015700	2SA 798G	A2/A1	
Q403L/R	2008604100	MPS L01	A2/A1	
Q404L/R	2008207101	2SA 1144Y	A2/A1	for AD266R, AD255R AD244 ONLY
	2008206102	2SA949		for AD233 ONLY
Q405L/R	2008607106	2SC 2704Y	A2/A1	for AD266R, AD255R, for AD244 ONLY
	2008606107	2SC 2229		for AD233 ONLY
Q406L/R	2028407118	2SC 2238Y	B2/B2	for AD266R, AD255R, AD244 ONLY
	2008607105	2SC 2824Y		for AD233 ONLY
Q407L/R	2028107115	2SA968Y	B2/B1	for AD266R, AD255R AD244 ONLY
	2008207100	2SA 1184Y		for AD233 ONLY
Q408L/R	2028407122	2SC 2565	F2/F1	for AD266R, AD255R AD244 ONLY
	2028407112	2SD 845Y		for AD233 ONLY
Q409L/R	2028107118	2SA 1095	C2/C1	for AD266R, AD255R, AD244 ONLY
	2028107108	2SB 755Y		for AD233 ONLY
Q501L/R	2008609101	MPS A05	C1	
Q502	2008209101	MPS A55	C2	
Q503, Q504	2008609101	MPS A05		
Q505			C2	
Q601	2028406113	KTD 880Y	F1	
Q602	2028106111	KTB 834Y	F1	
• DIODE				
D401	2058513115	ZENER RD 27EB 4	B1	
D402L/R	2058306101	IN 4148	A2/A1	
D403L/R			A2/A1	
D404L/R			A2/A1	
D405L/R	2438116100	RVDFV-312Y	A2/A1	
D501L/R	2058306101	IN 4148	C1	
D502L/R			C1	
D503			C2	
D504	2058513112	ZENER RD 20EB3	C2	
D505	2058106100	IN4002	C2	
D605, D606			F1/F2	
D607, D608			F2	
D609	2058513112	Zener RD 20EB3	F1	
D610			F1	
D611	2058513122	Zener RD 11EB2	F2	
D612	2058513119	Zener RD 22EB2	G2	
D601	2058100105	RECT IN5402	G2	
D620, D603			G2	
D604			G2	
• COIL				
L401L/R	2648001010	Inductor 0.5μH	D1	
• RELAY				
RELAY	5528001320	VB24MBU-510UL	D2	
• RESISTOR				
R224	3069222270	C.F 2.2M ohm ¼WJ	A2	
R401L/R	3069332270	C.F 3.3K ohm ¼WJ	A2/A1	
R402L/R	3069102270	C.F 1K ohm ¼WJ	A2/A1	
R403L/R	3069104270	C.F 100K ohm ¼WJ	A2/A1	
	3069823270	C.F 82K ohm ¼WJ	A2/A1	for AD233 ONLY
R404L/R	3069183270	C.F 18K ohm ¼WJ	A2/A1	
	3069103270	C.F 10K ohm ¼WJ	A2/A1	for AD233 ONLY
R405L/R	3069331270	C.F 330 ohm ¼WJ	A2/A1	
R406L/R	3069821270	C.F 820 ohm ¼WJ	A2/A1	
R407L/R	3069621270	C.F 620 ohm ¼WJ	A2/A1	
R408L/R	3069753270	C.F 75K ohm ¼WJ	A2/A1	
	3069683270	C.F 68K ohm ¼WJ	A2/A1	for AD233 ONLY
R409L/R	3069222270	C.F 2.2K ohm ¼WJ	A2/A1	for AD255R, AD244 ONLY
	3069242270	C.F 2.4K ohm ¼WJ	A2/A1	for AD266R AD233 ONLY
R410L/R	3069153270	C.F 15K ohm ¼WJ	A2/A1	
R411L/R	3069101270	C.F 100 ohm ¼WJ	A2/A1	
R412L/R			A2/A1	
	3069680270	C.F 68 ohm ¼WJ	A2/A1	for AD233 ONLY
R413L/R	3069479270	C.F 100 ohm ¼WJ	A2/A1	
R414L/R	3069101270	C.F 100 ohm ¼WJ	B2/B1	for AD233 ONLY

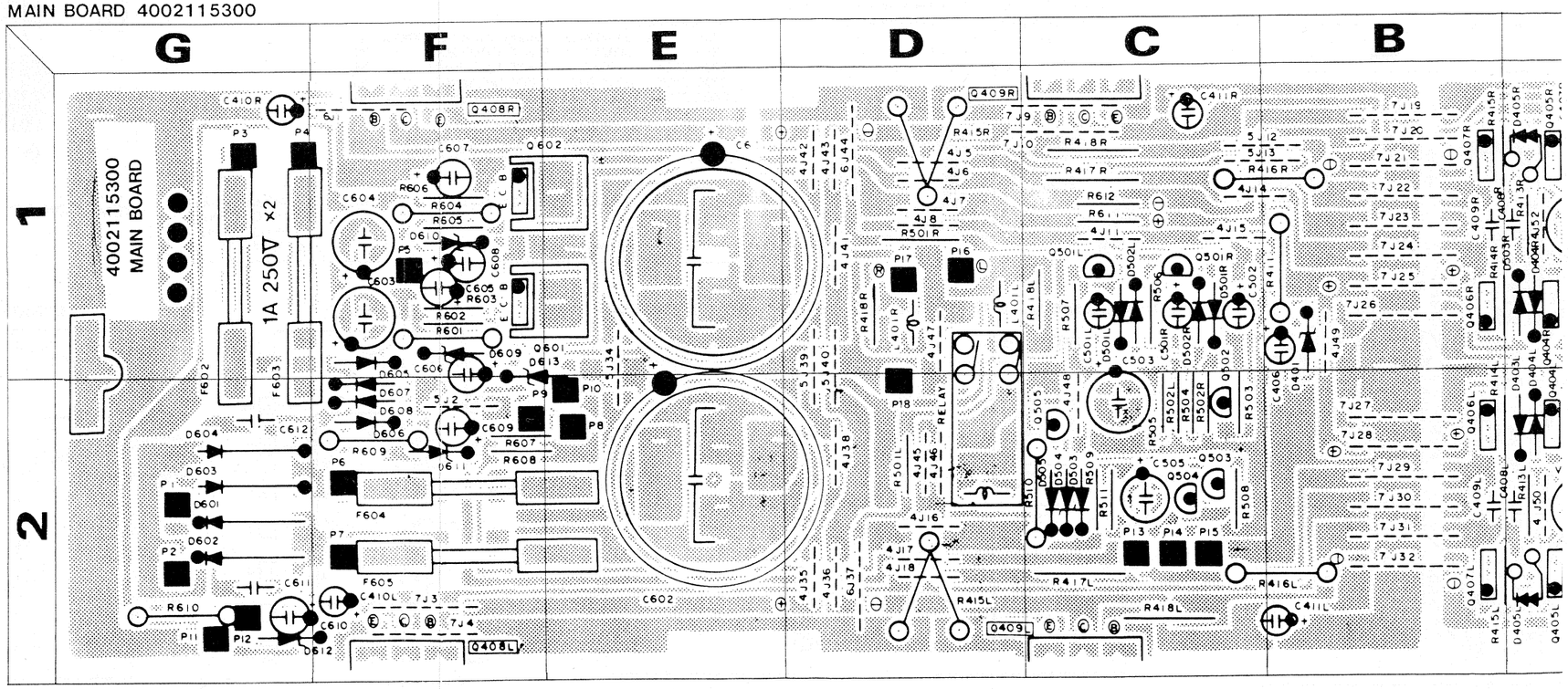
Ref No.	Parts No.	Description	Position	Remark
R415L/R	3069101270	C.F 100 ohm ¼WJ	B2/B1	
R416L/R	3039271472	C.F 2700 ohm(1WJ)	B2/B1	
R417L/R	3039339472	C.F 3.3 ohm(1WJ)	C2/C1	
R418L/R			C2/C1	
R419L/R	3059278786	CE.WW 0.27 ohm(5W PUAL)	D2/D1	
R420L/R	3069339270	C.F 3.3 ohm ¼WJ	D1	
R421	3039332472	C.F 3.3K ohm(1WJ)	B1	
	3039222472	C.F 2.2K ohm(1WJ)	B1	for AD 233 ONLY
R501L/R	3069222270	C.F 2.2K ohm ¼WJ	D2/D1	
R502L/R	3069153270	C.F 15K ohm ¼WJ	C2	
R503	3069474270	C.F 470K ohm ¼WJ	C2	
R504, R505	3069102270	C.F 1K ohm ¼WJ	C2	
R506, R507		C.F 15K ohm ¼WJ	C1	
R508	3069182270	C.F 1.8K ohm ¼WJ	C2	
R509	3069273270	C.F 27K ¼WJ	C2	
R510	3039271270	C.F 270 ohm 1WJ	C2	
R511	3069101270	C.F 100ooohm ¼WJ	C2	
	3069470270	C.F 470 ohm 1WJ	F1	for AD266R ONLY
R601	3069330270	C.F 33 ohm 1WJ	F1	
R602, R605	3069132270	C.F 1.3K ohm ¼WJ	F1	
R603, R606	3069271270	C.F 270 ohm ¼WJ	F1	
R604	3069121270	C.F 100 ohm ¼WJ	F1	for AD266R ONLY
	3069101270	C.F 100 ohm ¼WJ	F1	
R607, R608	3069472270	C.F 4.7K ohm ¼WJ	F2	
R609	3069121270	C.F 120 ohm(1WJ)	F2	
R610	3069331270	C.F 330 ohm(1WJ)	G2	
• CAPACITOR				
C401L/R	3479247971	Elect 4.7μF/50WV	A2/A1	
C402L/R	3579471130	Ceramic 470pF/50WV	A2/A1	
	3579221130	Ceramic 220pF/50WV	A2/A1	
C403L/R	35790 1130	Ceramic 100pF/50WV	A2/A1	

Ref No.	Parts No.	Description	Position	Remark
C404L/R	3579821130	Ceramic 820pF/50WV	A2/A1	
C405L/R	3479222031	Elect 22μF/16WV	A2/A1	
C406	3479210061	Elect 10μF/35WV	B1	
C407L/R	3579100330	Ceramic 10pF/50WV	A2/A1	
C408L/R	3509473530	Ceramic 0.047μF/50WV	A2/A1	
C409L/R			B2/B1	
C410L/R	3479210991	Elect 1μF/100WV	G2/G1	
C411L/R			B2/C1	
C501L/R	3479247871	Elect 0.47μF/50WV	C1	
C502	3479247971	Elect 4.7μF/50WV	C1	
C503	3409247121	Elect 470μF/10WV	C2	
C505	3479210141	Elect 100μF/25WV	C2	
C601, C602	3419582200	Elect 8200μF/80WV	E1/E2	for AD266R ONLY
	3419582280	Elect 8200μF/63WV	E1/E2	for AD255R, AD244 ONLY
	3419568280	Elect 6800μF/63WV	E1/E2	for AD233 ONLY
C603, C604	3409222161	Elect 220μF/35WV	F1	
C605, C607	3479247041	Elect 47μF/25 WV	F1	
C606, C608			F1	
C609, C610			F2/G2	
• FUSE				
F602, F603	5508212031	STD 1A/250V	G1	for UL/CSA ONLY
	5508402034	FIA/250V	G1	for EUROPE ONLY
F604, F605	5508213333	STD 7A/250V	F2	for AD266R-UL/CSA ONLY
	5508303234	T6.3A/250V	F2	for EUROPE ONLY
	5508213134	STD 6A/250V	F2	for AD255R, AD244, AD233-UL/CSA ONLY
	5508303234	T6.3A/250V	F2	for EUROPE ONLY

COMMANDER BOARD 400511

Ref No.	Parts No.	Description
• IC		
IC901	2138013116	IC μPD 6121G
• TRANSISTOR		
Q901	2008606104	KTC 1815Y
LD901	2308060105	LED TLR 266ERD
LD902	2408001100	LED IR EL-IL2
CS901	3938001001	Ceramic Resonator-455E
• RESISTOR		
R901	3069122970	C.F 1.2K onm ⅛WJ
R902, R903	3069104970	C.F 100K ohm ⅛WJ
R904		
R905	3069229970	C.F 2.2 ohm ⅛WJ
• CAPACITOR		
C901	3409247022	Elect 47μF/10WV
C902, C903	3509101130	Ceramic 100pF/50WV

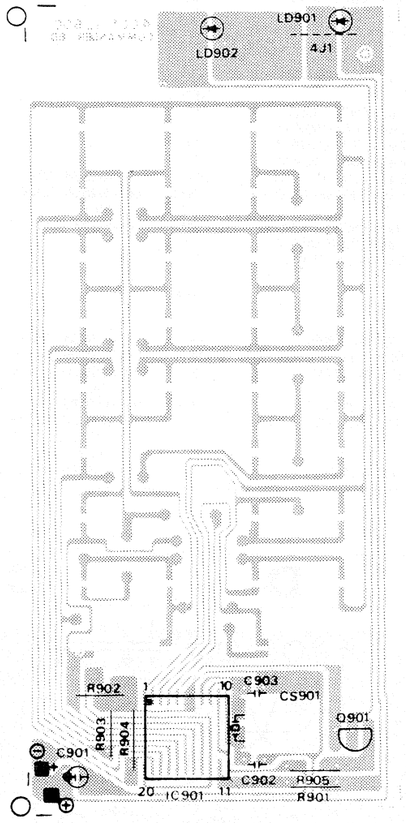
MAIN BOARD 4002115300



4005112600 (AD266R/255R)

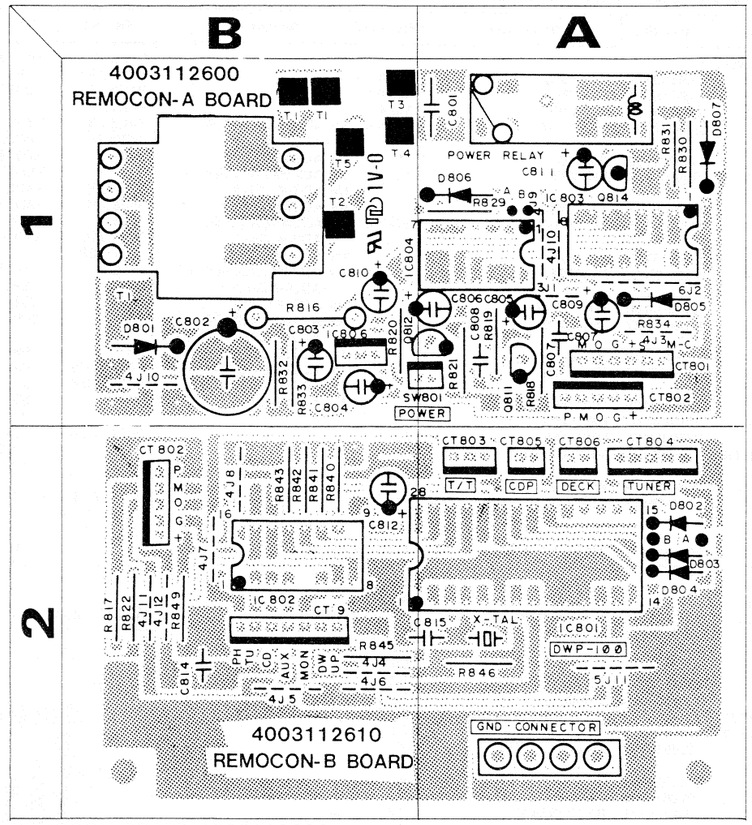
...iption	Position	Remark
...G		
...ERD		
...2		
...onator-455E		
...mm ⅕WJ		
...mm ⅕WJ		
...mm ⅕WJ		
...10WV		
...00pF/50WV		

4005112600
COMMANDER BOARD

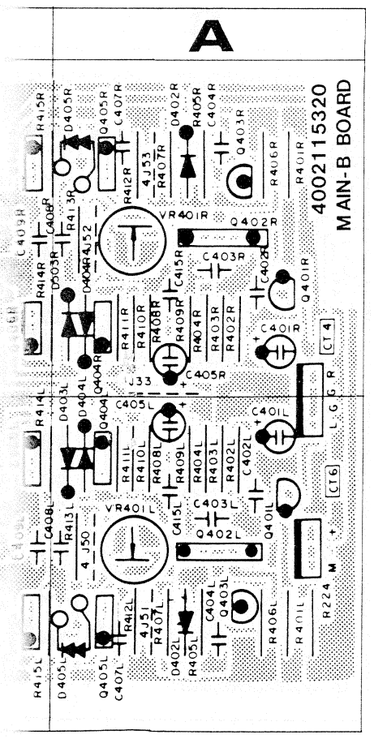


REMOCON BOARD 4003112600 (AD255R/AD266R)

Ref No.	Parts No.	Description	Position	Remark
• IC				
IC801	2130309100	IC DWP-100	A2	
IC802	2138013115	IC MPD 4028	B2	
IC803	2138009100	IC MC 14027	A1	
IC804	2138011110	IC MC 14093	A1	
IC806	2168611102	IC HA 17805	B1	
• TRANSISTOR				
Q811, Q812	2008606104	TR KTC 1815Y	A1	
Q814	2008609101	TR MPS A05	A1	
• DIODE				
D801, D805	2058106100	RECT IN4002	B1	
D806, D807			B1	
D802, D803	2058306101	RECT IN4148	A2	
D804			A2	
D805, D806	2058306101	RECT IN4148	A1	
D807	2158106100	RECT IN4002	A1	
RELAY	5528001250	VS-12MB NR-UL2	A1	
X-TAL	3098101140	X-TAL 4MHz	A2	
• RESISTOR				
R816	3069220270	C.F 22 ohm ¼WJ	B1	
R817	3069392270	C.F 3.9K ohm ¼WJ	B2	
R818, R821	3069223270	C.F 22K ohm ¼WJ	A1	
R819, R820	3069103270	C.F 10K ohm ¼WJ	A1/B1	
R822	3069392270	C.F 3.9K ohm ¼WJ	B2	
R829, R834	3069223270	C.F 22K ohm ¼WJ	A1	
R830	3069123270	C.F 12K ohm ¼WJ	A1	
R831	3069104270	C.F 100K ohm ¼WJ	A1	
R832	3069479270	C.F 4.7 ohm ¼WJ	B1	
R840, R841	3069104270	C.F 100K ohm ¼WJ	B2	
R842, R843			B2	
R845, R846	3069472270	C.F 4.7K ohm ¼WJ	B2/A2	
• CAPACITOR				
C801	3549472407	Ceramic 0.0047μF·400VAC	A1	
C802	3409247141	ELECT 470μF/25WV	B1	
C803, C804	3479247041	ELECT 47μF/25WV	B1	
C805, C806	3479210971	ELECT 1μF/50WV	A1	
C807, C808	3579223530	Ceramic 0.022μF/50WJ V	A1	
C809, C810	3479222971	ELECT 2.2μF/50WV	A1/B1	
C811, C812	3479210971	ELECT 1μF/50WV	A2/B2	
C814	3579223530	Ceramic 0.02μF/50WV	B2	
C815	3529270210	Ceramic 27F(CH)/50WV	A2	
• TRANSFORMER				
T1	2828043101	POWER TRANS	B1	for AD266R, AD255R, UL/CSA ONLY
	2828044901			for EUROPE ONLY
	2828045001			for DOMI ONLY

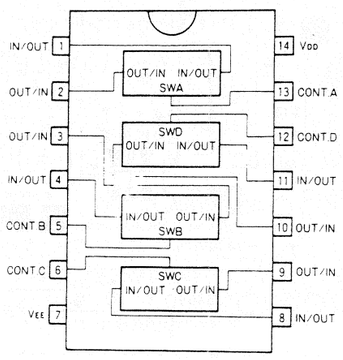


REMOCON BOARD 4003112600



PIN ASSIGNMENT AND EQUIVALANT CIRCUIT BLOCK DIAGRAM

(MC14066)



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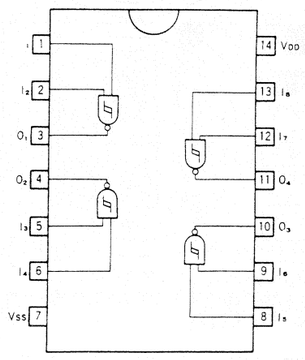

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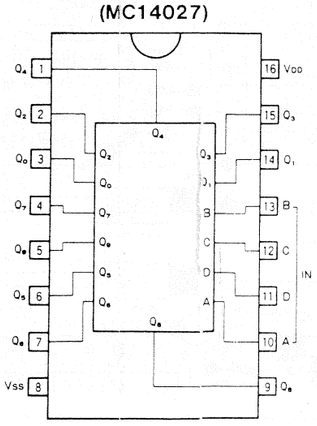
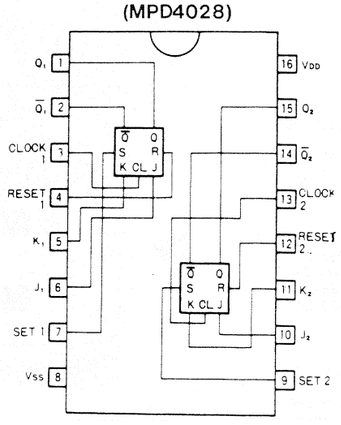
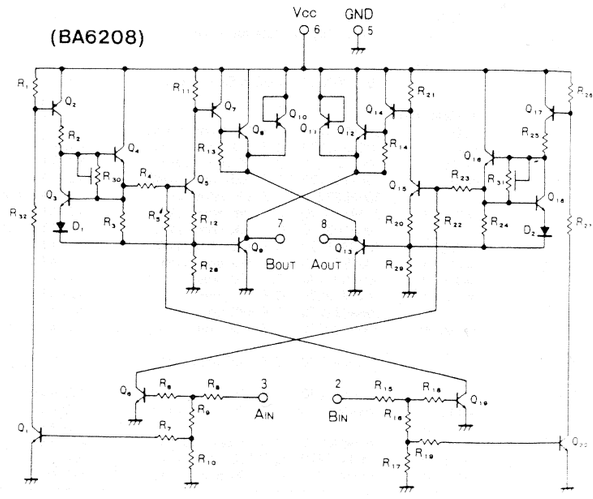


(MPD4028)



(BA6208)



Parts List & Top View of P.C Boards

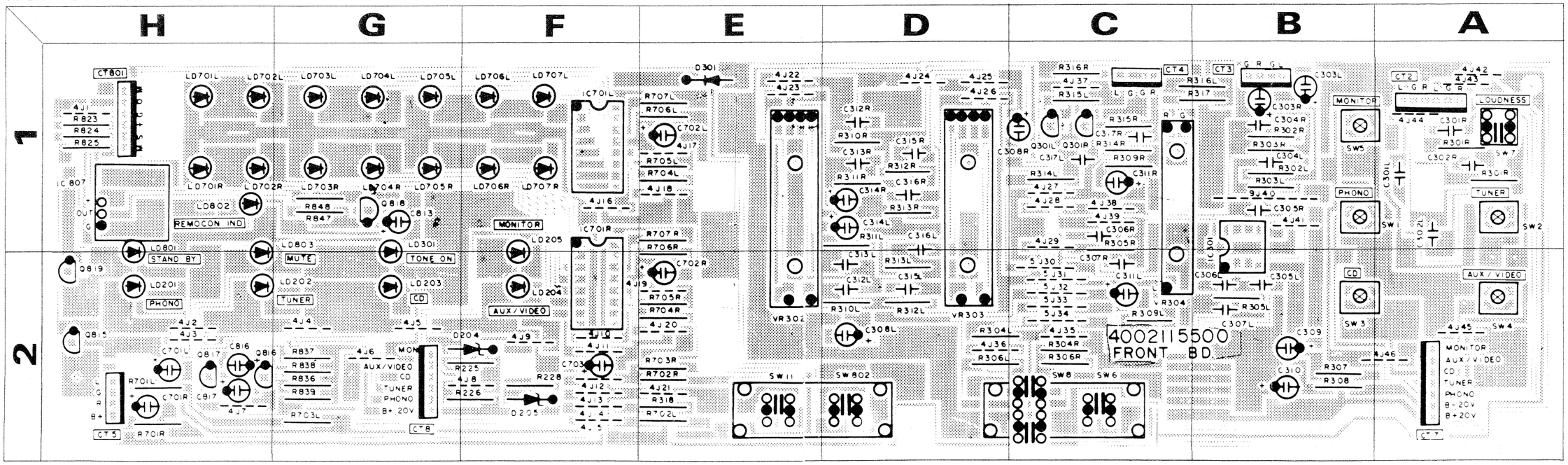
FRONT BOARD 4002115500 (AD266R)

Ref No.	Parts No.	Description	Position	Remark
• IC				
IC301	2168220103	IC NJM 4560D	B1	
IC701L/R	2168010107	IC AN 6882	F1/F2	
IC807	2138000114	IC BX1317	H1	
• TRANSISTOR				
Q301L/R	2008610102	2SD 1302S	C1	
Q815, Q819	2008606104	KTC 1815Y	H2	
Q818	2008206105	KTA 1015Y	G1	
• DIODE				
D301	2058513100	ZENER RD3.3EB1	E1	
D204, D205	2058513122	ZENER RD11EB3	F2	
LD201	2308220326	LED SLV56MC3	H2	
LD202			H2	
LD203, LD204			G2/F2	
LD205	2308220507	LED SLV56DC3	F2/G2	
LD301			F2/G2	
LD801			H2	
LD803			H2	
LD802	2308220109	LED SLR54URC3	H1	
LD701L/R	2308220507	LED SLV56DC3	H1	
LD702L/R			H1	
LD703L/R			G1	
LD704L/R			G1	
LD705L/R			G1	
LD706L/R			F1	
LD707L/R			F1	

Ref No.	Parts No.	Description	Position	Remark
• RESISTOR				
R225	3069103270	C.F 10K ohm ¼WJ	F2	
R226	3069152270	C.F 1.5K ohm ¼WJ	F2	
R228	3069122270	C.F 1.2K ohm ¼WJ	F2	
R301L/R	3069562270	C.F 5.6K ohm ¼WJ	A1	
R302L/R	3069102270	C.F 1K ohm ¼WJ	B1	
R303L/R	3069154270	C.F 150K ohm ¼WJ	B1	
R304L/R	3069391270	C.F 390 ohm ¼WJ	D2/C2	
R305L/R	3069222270	C.F 2.2K ohm ¼WJ	B2/C1	
R306L/R	3069683270	C.F 68K ohm ¼WJ	D2/C2	
R307, R308	3069331270	C.F 330 ohm ¼WJ	B2	
R309L/R	3069102270	C.F 1K ohm ¼WJ	C2/C1	
R310L/R	3069223270	C.F 22K ohm ¼WJ	D2/D1	
R311L/R	3069392270	C.F 3.9K ohm ¼WJ	D1	
R312L/R	3069222270	C.F 2.2K ohm ¼WJ	D2/D1	
R313L/R	3069561270	C.F 560 ohm ¼WJ	D2/D1	
R314L/R	3069102270	C.F 1K ohm ¼WJ	C1	
R315L/R	3069221270	C.F 220 ohm ¼WJ	C1	
R316L/R	3069332270	C.F 3.3K ohm ¼WJ	B1/C1	
R317	3069683270	C.F 68K ohm ¼WJ	B1	
R701L/R	3069223270	C.F 22K ohm ¼WJ	H2	
R702L/R	3069151270	C.F 150 ohm ¼WJ	E2	
R703L/R	3069681270	C.F 680 ohm ¼WJ	G2/E2	
R704L/R	3069153270	C.F 15K ohm ¼WJ	E1/E2	
R705L/R	3069104270	C.F 100K ohm ¼WJ	E1/E2	
R706L/R	3069183270	C.F 18K ohm ¼WJ	E1/E2	
R707L/R	3069682270	C.F 6.8K ohm ¼WJ	E1/E2	
R823	3069181270	C.F 180 ohm ¼WJ	H1	
R824, R825	3069123270	C.F 12K ohm ¼WJ		

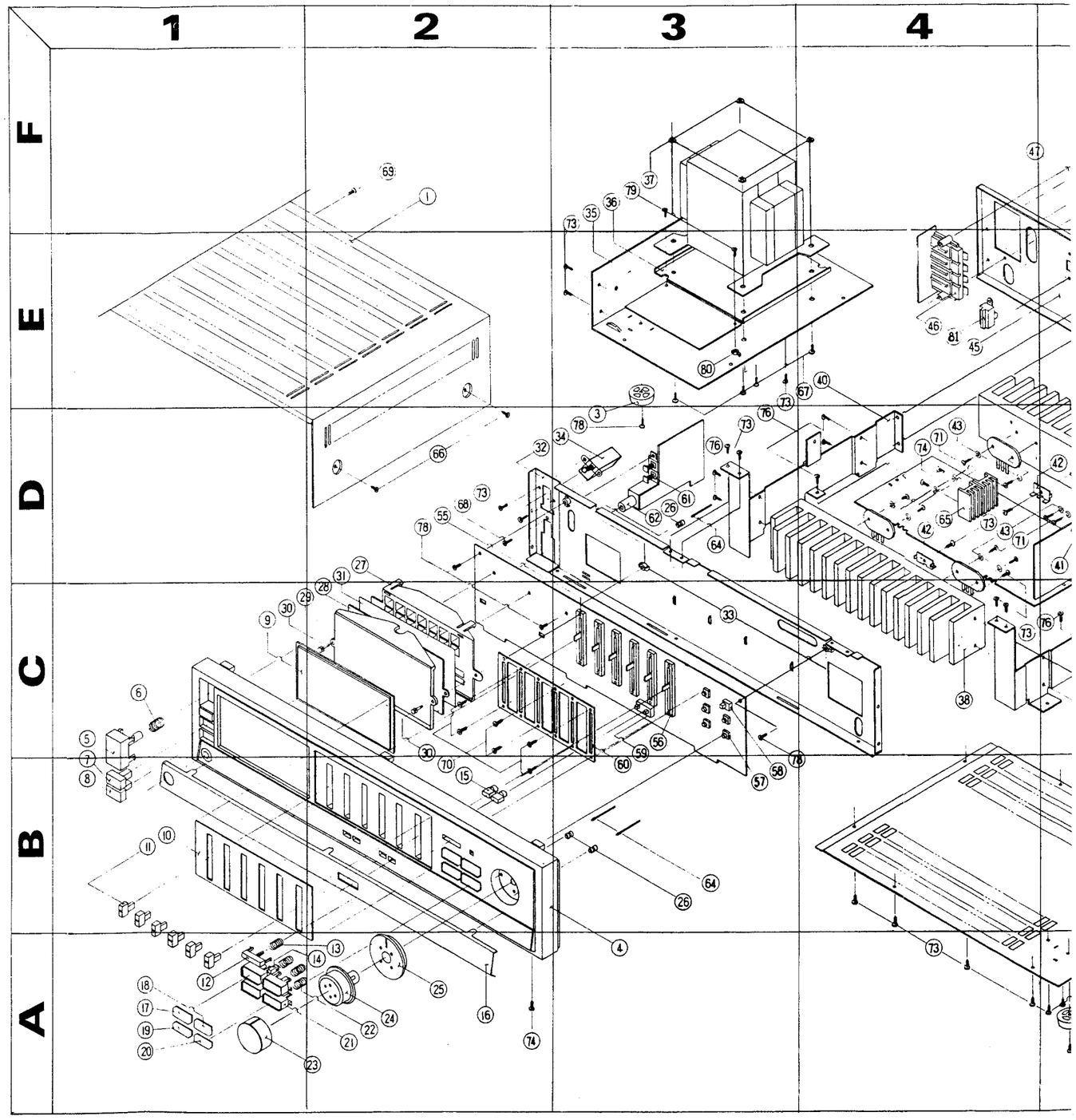
Ref No.	Parts No.	Description	Position	Remark
R847	3069683270	C.F 68K ohm ¼WJ	G1	
R848	3069151270	C.F 150 ohm ¼WJ	G1	
• CAPACITOR				
C301L/R	3579151130	Ceramic 150pF/50WV	A1	
C302L/R	3679393120	Mylar 0.039μF/100WV	A1	
C303L/R	3658105201	T 1μF/16WV	B1	
C304L/R	3579101130	Ceramic 100pF/50WV	B1	
C305L/R	3579331130	Ceramic 330pF/50WV	B2/B1	
C306L/R	3579681230	Ceramic 680pF/50WV	B2/C1	
C307L/R	3579100030	Ceramic 10pF/50WV	B2/C2	
C308L/R	3479210061	Elect 10μF/35WV	D2/C1	
C309 C310	3479222041	Elect 22μF/25WV	B2	
C311L/R	3479247971	Elect 4.7μF/50WV	C2/C1	
C312L/R	3679153120	Mylar 0.015μF/100WV	D2/D1	
C313L/R	3079823120	Mylar 0.082μF/100WV	D2/D1	
C314L/R	3479222031	Elect 22μF/16WV	D1	
C315L/R	3679352120	Mylar 0.0035μF/100WV	D2/D1	
C316L/R	3679183120	Mylar 0.018μF/100WV	D1	
C317L/R	3579102530	Ceramic 1000pF/50WV	C1	
C701L/R	3479247871	Elect 0.47μF/50WV	H2	
C702L/R	3479247971	Elect 4.7μF/50WV	E1/E2	
C703	3479210061	Elect 10μF/35WV	F2	
C813	3479247871	Elect 0.47μF/50WV	G1	

FRONT BOARD 4002115500

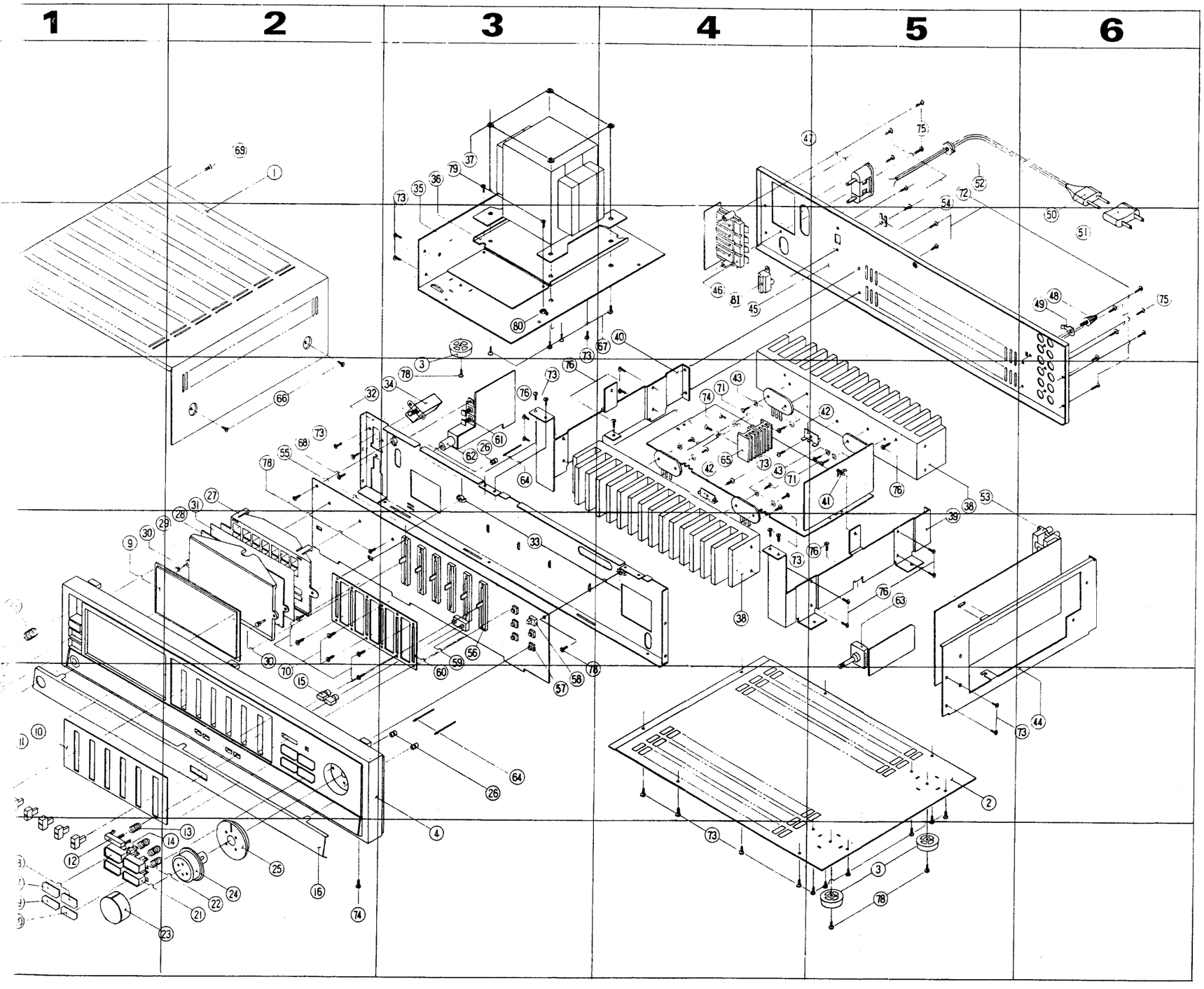


Parts List & Exploded View of Cabinet & Chassis (AD233/AD244)

No.	Parts No.	Description	Q'ty	Position
1	046122011511	Top Cover	1	F2
2	6122408010	Bottom Cover	1	B5
3	6335000310	Rubber Foot	4	D3, A5
4	048501005911	Panel Front	1	A3
5	048545026610	Button Push(POWER)	1	C1
6	6555601020	Spring	1	C1
7	048545031111	Knob Speaker(A)	1	C1
8	048545031112	Knob Speaker(B)	1	B1
9	8555007010	Winder	1	C1
10	048535009511	Decoration Inlay	1	B1
11	048545031211	Knob Slide	6	B1
12	8545031010	Knob Tact	1	A1
13	6555000410	Spring	1	A2 A2
14	8554030810	Knob Push	1	A2 A1
15	8545033910	Button Push	2	B2
16	048623002321	Decoration Plate	1	A2
17	048635006213	Plate Knob(PHONO)	1	A1
18	048635006214	Plate Knob(TUNER)	1	A1
19	048635006215	Plate Knob(CD)	1	A1
20	048635006216	Plate Knob(AUX/VIDEO)	1	A1
21	8545030910	Knob Tact	4	A2
22	6555003610	Spring	4	A2
23	048645008911	Knob Cap	1	A2
24	6055002710	Knob Base	1	A2
25	048555012311	Volume Illumination	1	A2
26	6715010410	Lamp Holder	3	D3, B3
27	6512000210	Display Holder	1	D2
28	048535009412	Inlay	1	D2
29	048553004412	Plate Illumination	1	C2
30	8238000110	Nylon Rivet Ass'y	2	C1, C2
31	8535011210	Diffuser	1	D2
32	6122211010	Chassis Front	1	D2
33	6705004210	Spacer	3	C3
34	4628035710	S/W Power	1	D3
35	6122609610	Chassis Main	1	F3
36	6505054010	BKT Trans	1	F3
37	8209540011	Nut Flange M4y	4	F3
38	7503006920	Heat Sink	2	C4
	7503006930	Heat Sink(AD244 ONLY)		
39	6123617410	Frame Heat Sink(R)	1	D5
40	6123617420	Frame Heat Sink(L)	1	E4
41	6528300110	Fastener	1	D5
42	650506751510	BKT PCB	2	D4, D5
43	8319130011	Washer Spring ϕ3y	8	D4
44	6123614610	Frame Side	1	B6
45	046102018611	Chassis Back	1	E4
46	4408101360	Speaker Terminal(8p)	1	E4
47	4448100210	AC Out Let	1	F5
48	4465100210	Terminal Screw	1	E6
49	4465100110	Terminal GND	1	E6
50	4308001610	Cord AC Power	1	E6
51	4428300310	Adaptor AC	1	E6
52	6513000310	Stopper Cord AC	1	F5
53	4438101910	RCA Jack(4p)	3	D5
54	6515000630	Slide Holder	1	F5
55	3237405610	Slide VR	5	D2
56	3238406210	Slide VR Slide	1	C3
57	4658001810	S/W Tact	5	B3
58	4628005610	S/W Push(1Key)	1	B3
59	4628040410	S/W Push(2Key)	1	C3
60	046505070011	BKT Slide	1	C3
61	4628033110	S/WSPeaker	1	D3
62	4438000810	Phone Jack	1	D3
63	3208040210	S/W Rotary	1	C5
64	2528201420	Lamp	3	D3, B3
65	7505200710	REG TR Heat Sink	2	D4
66	8159440083	Screw WPS 4 x 8B	4	D2
67	8069140101	Screw WPS 4 x10U	4	E4
68	8119430041	Screw PS 3 x 4Y	1	D2
69	8119430053	Screw PS 3 x 5B	1	F2
70	8019120033	Screw PM 2 x 3B	3	B2
71	8019130141	Screw PM 3 x 14Y	8	D4
72	8119230063	Screw #2 PTC 3 x 6B	8	F5
73	8119230061	Screw #2 PTC 3 x 6Y	23	D2, F3 E3, D3 D4, C4 A4, B6
74	8119230081	Screw #2 PTC 3 x 8Y	5	A2
75	8119130083	Screw #1 PT 3 x 8B	5	D4, F5 E6
76	8159230061	Screw #2 WPTC 3 x 6Y	12	D3, D5
			2	C5
77	8159230061	Screw #2 WPTC 3 x 8Y	2	
78	8159230101	Screw #2 WPTC 3 x 10Y	7	D2, D3 C4, B5
79	8159230141	Screw #2 WPTC 3 x 14Y	2	F3
80	6765004220	Spacer	2	E3
81	4618000410	Slide Switch	1	E4



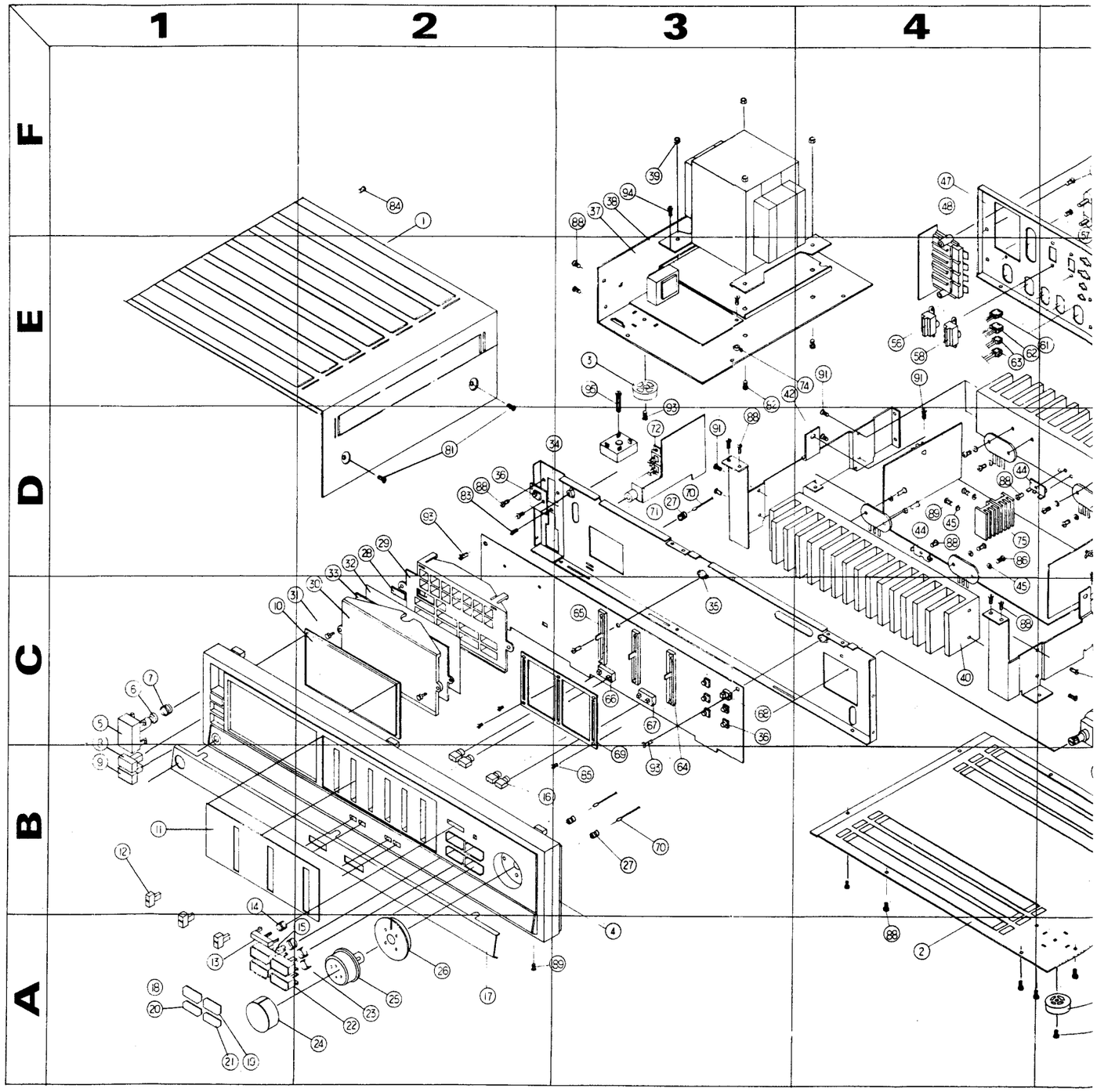
233/AD244)



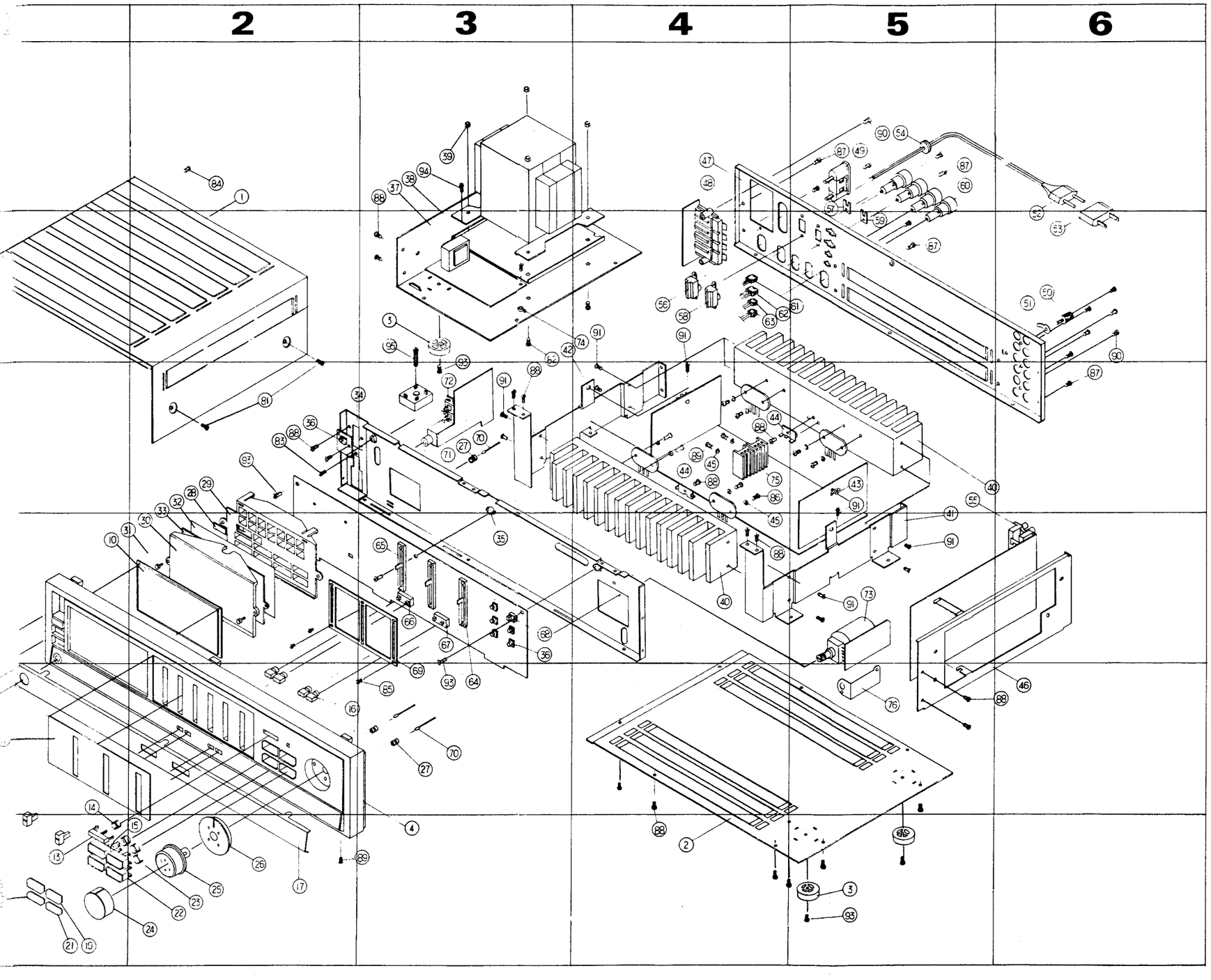
Parts List & Exploded View & Cabinet & Chassis (AD266R/AD255R)

No.	Parts No.	Description	Q'ty	Position
1	046122011511	Top Cover	1	F2
2	6122408010	Botton Cover	1	A4
3	6335000310	Rubber Foot	4	A5,E3
4	048501005911	Panel Front	1	A3
5	048545026610	Button Push(Power)	1	C1
6	6955003010	Insert Tact	1	C1
7	6555601020	Spring	1	C1
8	0485455031111	Knob Surround	1	B1
9	0485455031112	Knob Main	1	B1
10	8555007010	Window	1	B1
11	048535009512	Decoration Inlay	1	B1
12	048545031211	Knob Slide	3	B1
13	8545031010	Knob Tact	1	A1
14	6555000410	Spring	1	B1
15	8554030810	Knob Push	1	B2
16	8545033910	Button Push	4	B2
17	048223002311	Decoration Plate	1	A2
18	048635006213	Plate Knob(PHONO)	1	A1
19	048635006214	Plate Knob(TUNER)	1	A1
20	048635006215	Plate Knob(CD)	1	A1
21	048635006216	Plate Knob(AUX/VIDED)	1	A1
22	8545030910	Knob Tact	4	A2
23	6555003610	Spring	4	A2
24	048645008911	Knob Cap	1	A2
25	6055002710	Knob Base	1	A2
26	048555012311	Volume Illumination	1	A2
27	6715010410	Lamp Holder	3	B3,D3
28	8535002810	Filter Sensor	1	D2
29	6512000210	Display Holder	1	D2
30	048553004411	Plate Illumination	1	C2
31	8238000110	Nylen Rivet Ass'y	2	C1
32	8535011210	Diffuser	1	D2
33	048535009411	Inlay	1	C2
34	6122211010	Chassis Front	1	D2
35	6705004210	Spacer	3	C3
36	4658001810	S/W Tact	6	D2,C3
37	6122609610	Chassis Main	1	F3
38	6505054010	BKT Trans	1	F3
39	8209540011	Nut Flange M4y	4	F3
40	7503006910	AD266R	2	C4, D5
	7503006930	AD255R		
41	6123617410	Frame Heat Sink(R)	1	C5
42	6123617420	Frame Heat Sink(L)	1	E3
43	6528300110	Fastener	2	D5
44	65050067510	BKT PCB	2	D4
45	8319130011	Wasber Spring ϕ3y	10	C4, D4
46	6123614610	Frame Side	1	B6
47	046102017811	Chassis Back	1	F4
48	4408101360	Speaker Terminal(8p)	1	F4
49	4448100210	AC Out Let	1	F5
50	4465100210	Terminal Screw	1	E6
51	4465100110	Terminal GND	1	E6
52	4308001610	Cord AC Power	1	F6
53	4428300310	Adapter AC	1	E6
54	6513000310	Stopper Cord AC	1	F5
55	4438101910	RCA Jack(4p)	3	D5
56	4618004010	S/W Slide	1	E4
57	6515007010	S/W Slide Holder	1	F5
58	46180004K0	S/W Slide	1	E4
59	6515000630	S/W Slider Holder	1	E5
60	4458000220	Fuse Holder	4	F5
61	4428510810	Connector(3p)	1	E5
62	4428510910	Connector(5p)	1	E4
63	4428511110	Connector(2p)	2	E4
64	3238406210	Slide VR	1	B3
65	3238405620	Slide VR	2	C3
66	4628042210	S/W Puch(2key)	1	C3
67	4628042310	S/W Push(2key)	1	C3
68	4628005610	S/W Push(1key)	1	C3
69	046505070111	BKT Slide	1	B3
70	2528201420	Lamp	3	D3, B3
71	443800810	Phone Jack	1	D3
72	4628033110	S/W Speaker	1	D3
73	3228010710	S/W Rotary(Moter)	1	C5
74	6765004220	Spacer	2	E4
75	7505200710	Reg TR Heat Sink	2	D4
76	6165121710	GND VR	1	B5
81	8159440083	Screw WPS 4 x 8B	4	D2
82	8069140101	Screw WPS 4 x10y	4	D3
83	8119430041	Screw PS 3 x 4y	1	D2
84	8119430053	Screw PS 3 x 5B	1	F2

No.	Parts No.	Description	Q'ty	Position
85	8019120033	Screw PM 2 x 3B	3	B3
86	8019130141	Screw PM 3 x 14y	8	D4
87	8119230063	Screw # 2 PTC 3 x 6B	12	D6,F5,E5
88	8119230061	Screw # 2PTC 3 x 6y	23	A4, C4 B6, D2 F3, D4
89	8119230081	Screw # 2 PTC 3 x 8y	5	A3, D4
90	8119130083	Screw # 1 PT 3 x 8B	5	E6, F5
91	8159230061	Screw # 2 WPTC 3 x 6y	12	C5, D3 E4, D5
92	815923101	Screw # 2 WPTC 3 x 10y	7	B3, A5 D2, D3
93	8159230141	Screw # 2 WPTC 3 x 14y	2	F3
94	8159240181	Screw # 2 WTCPM 4 x 18y	1	E3



MC-Service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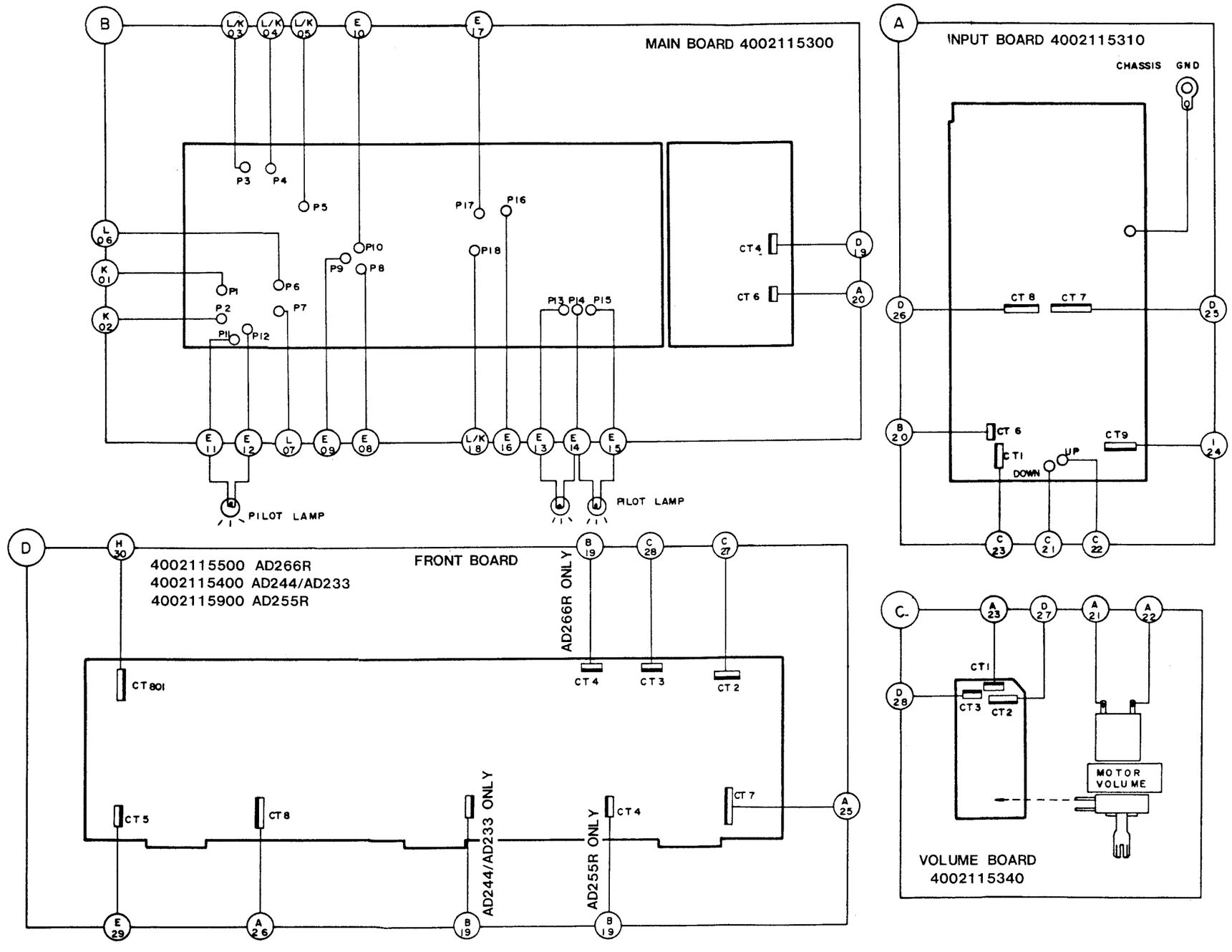
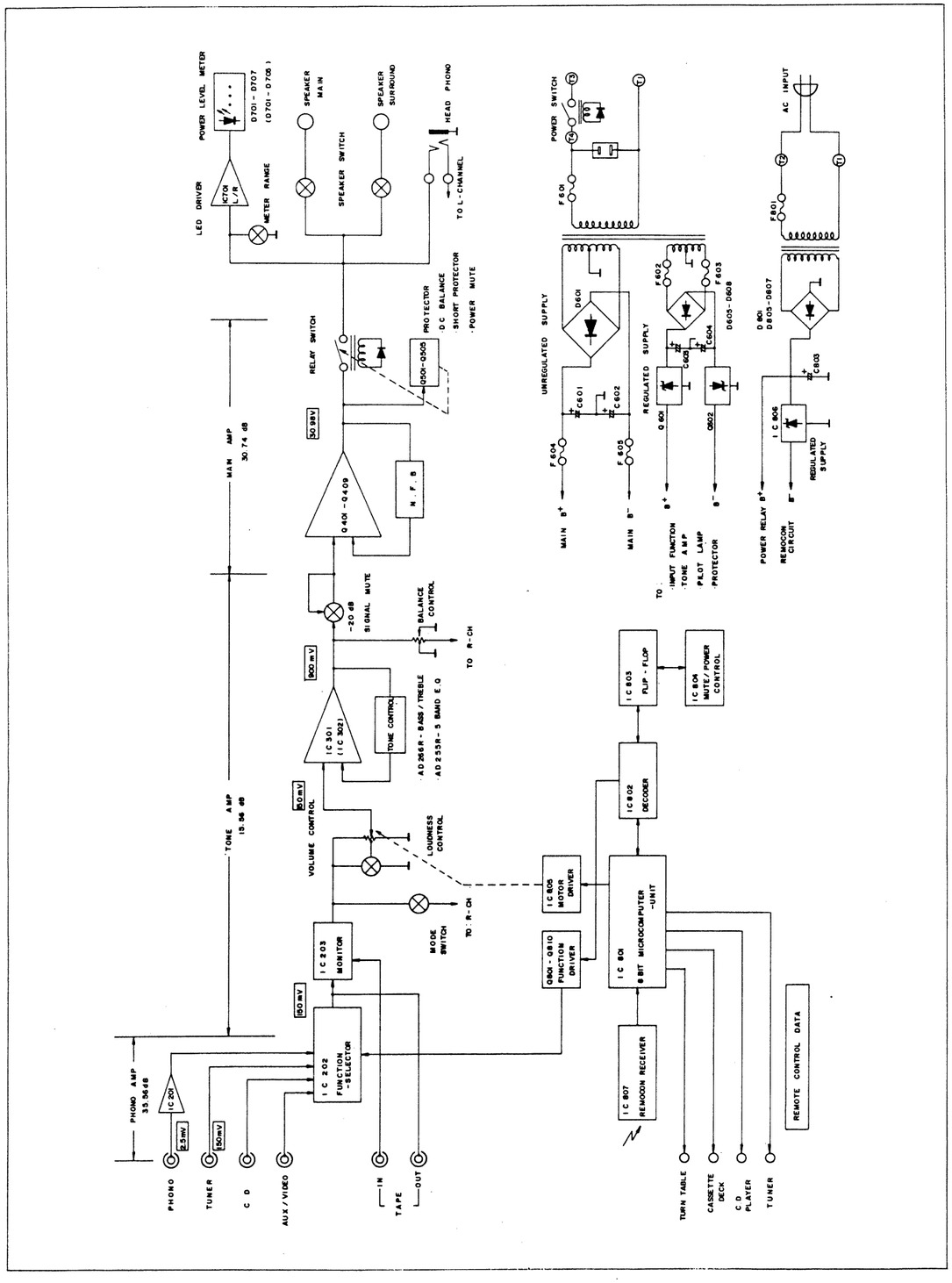
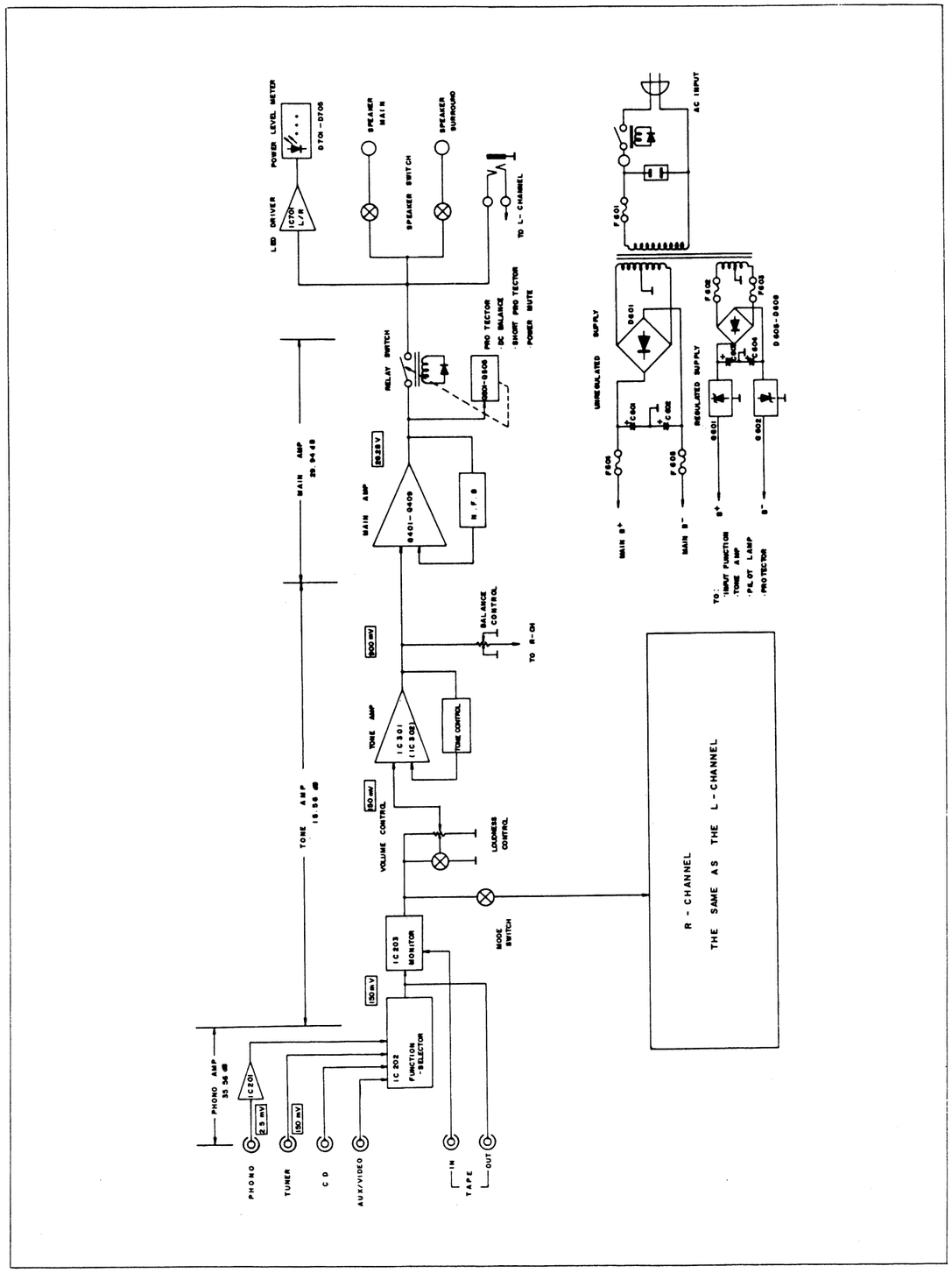
Point to Point Wiring Diagram (AD266R/AD255R/AD244/AD233)



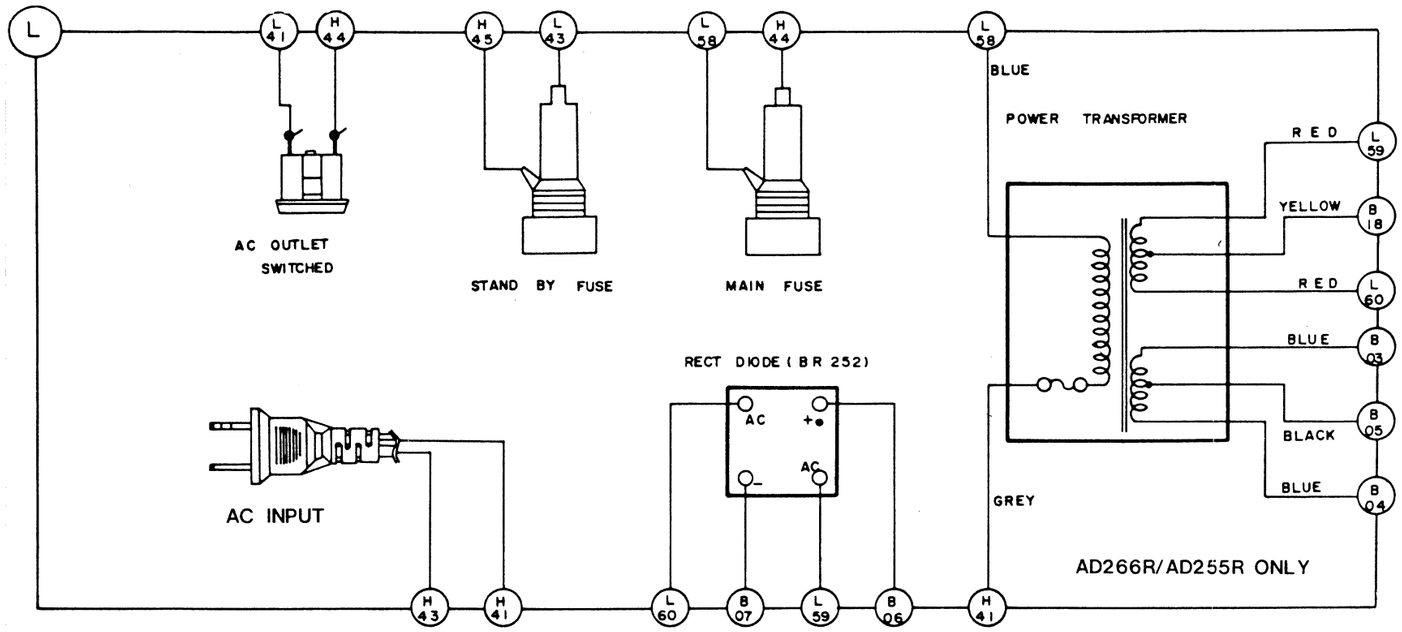
Block Diagram (AD255R AD266R)

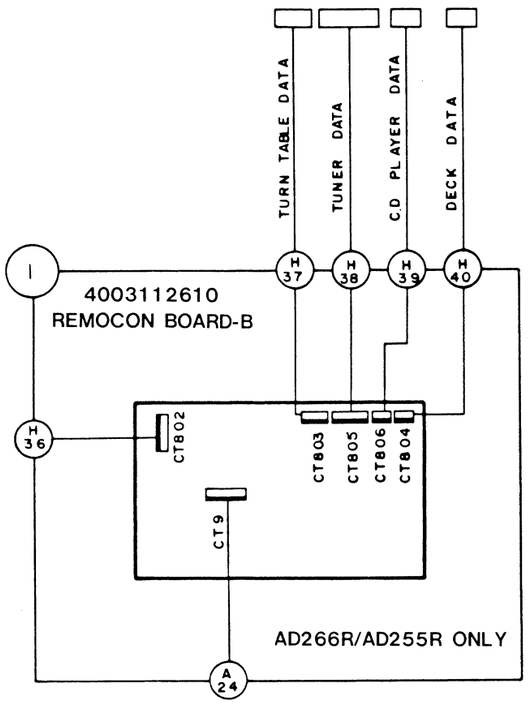


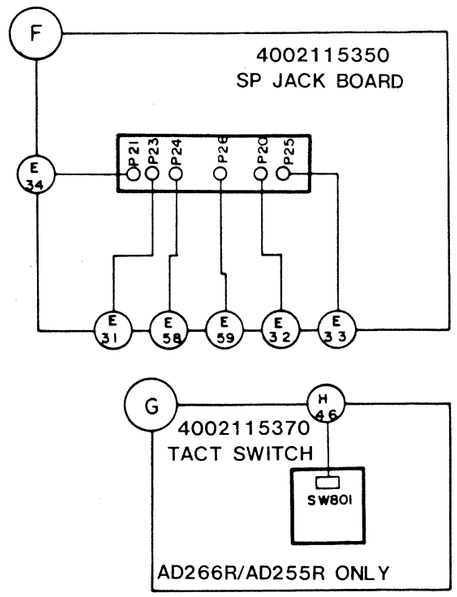
Block Diagram (AD233/AD244)

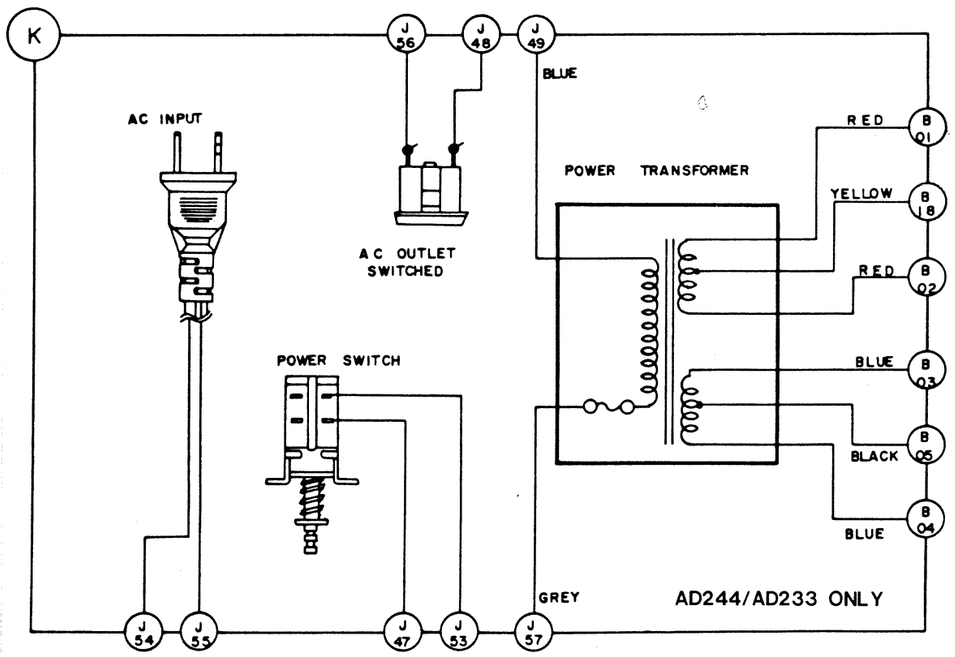


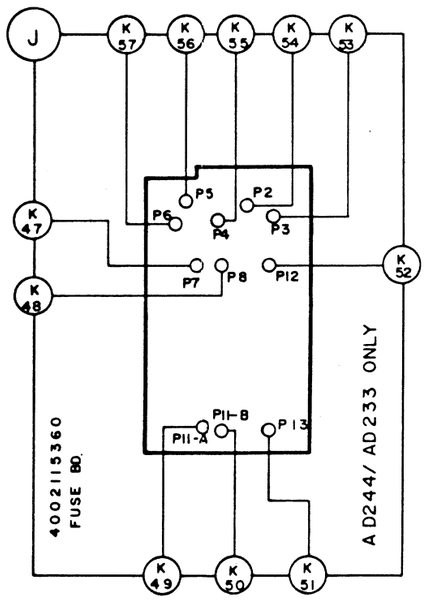
Point to Point Wiring Diagram (AD266R/AD255R/AD244/AD233)

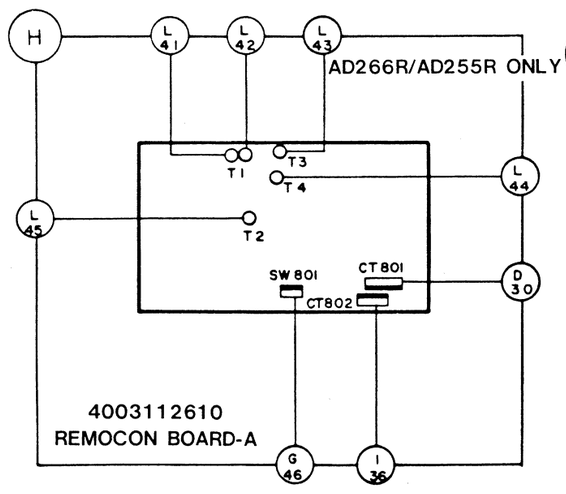


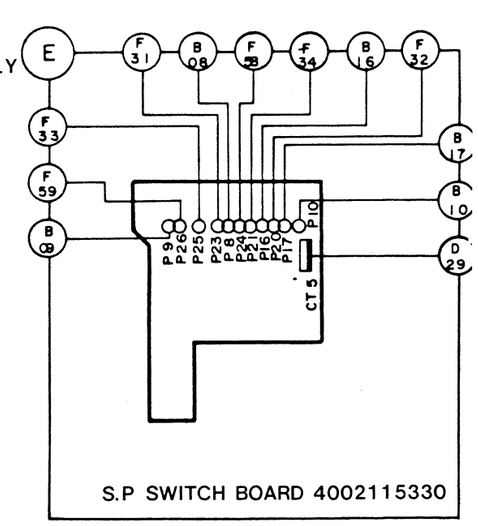






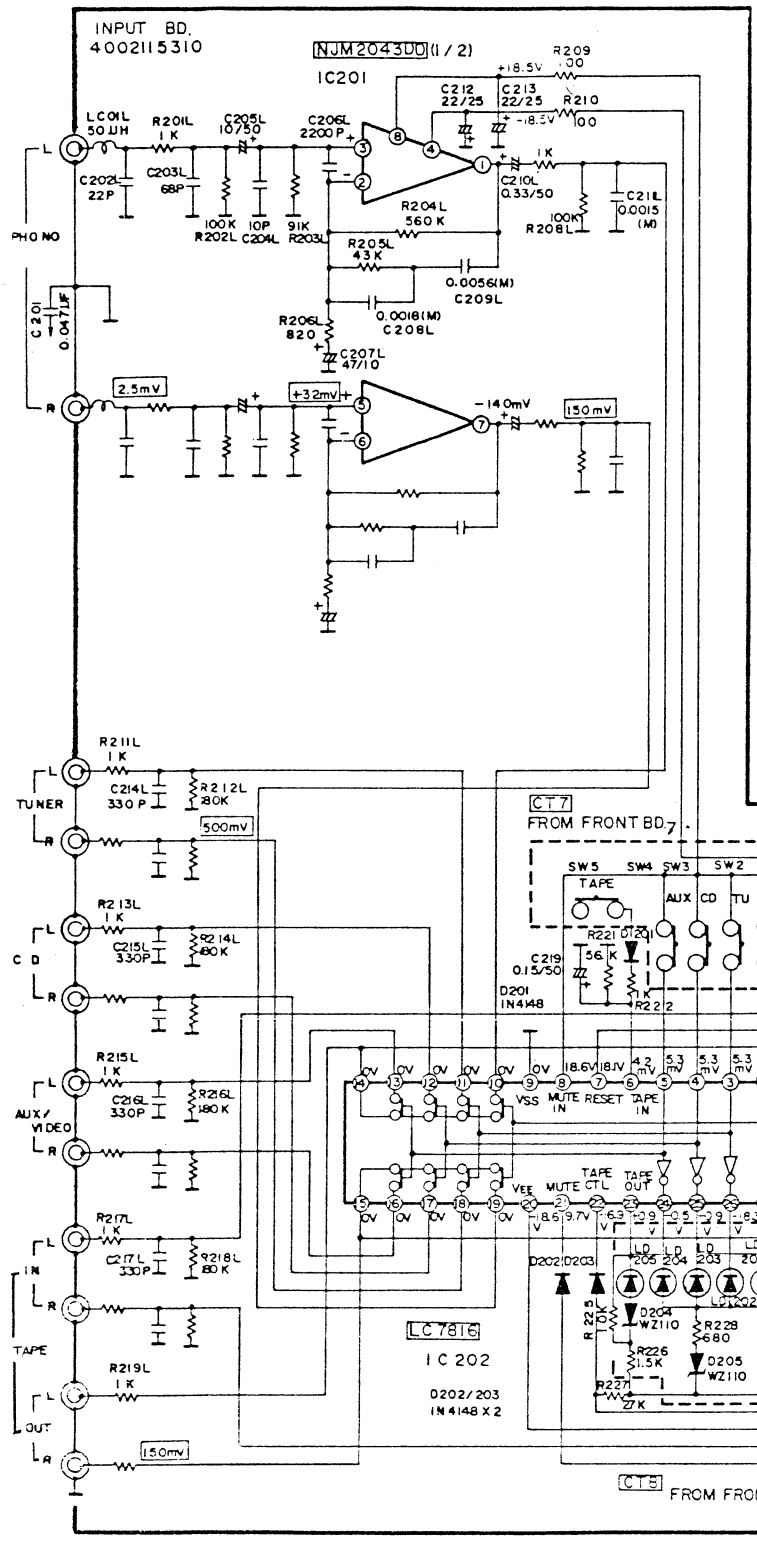


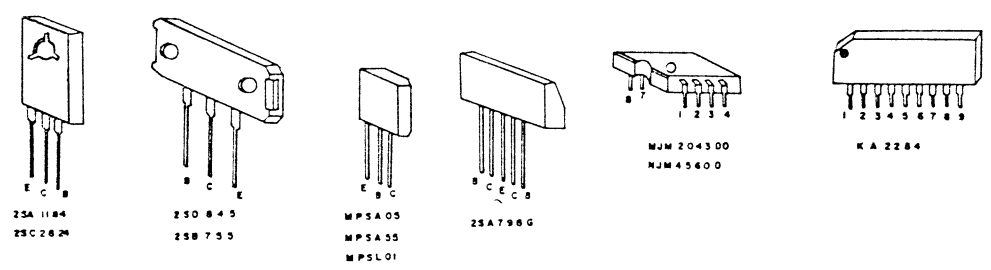




Schematic

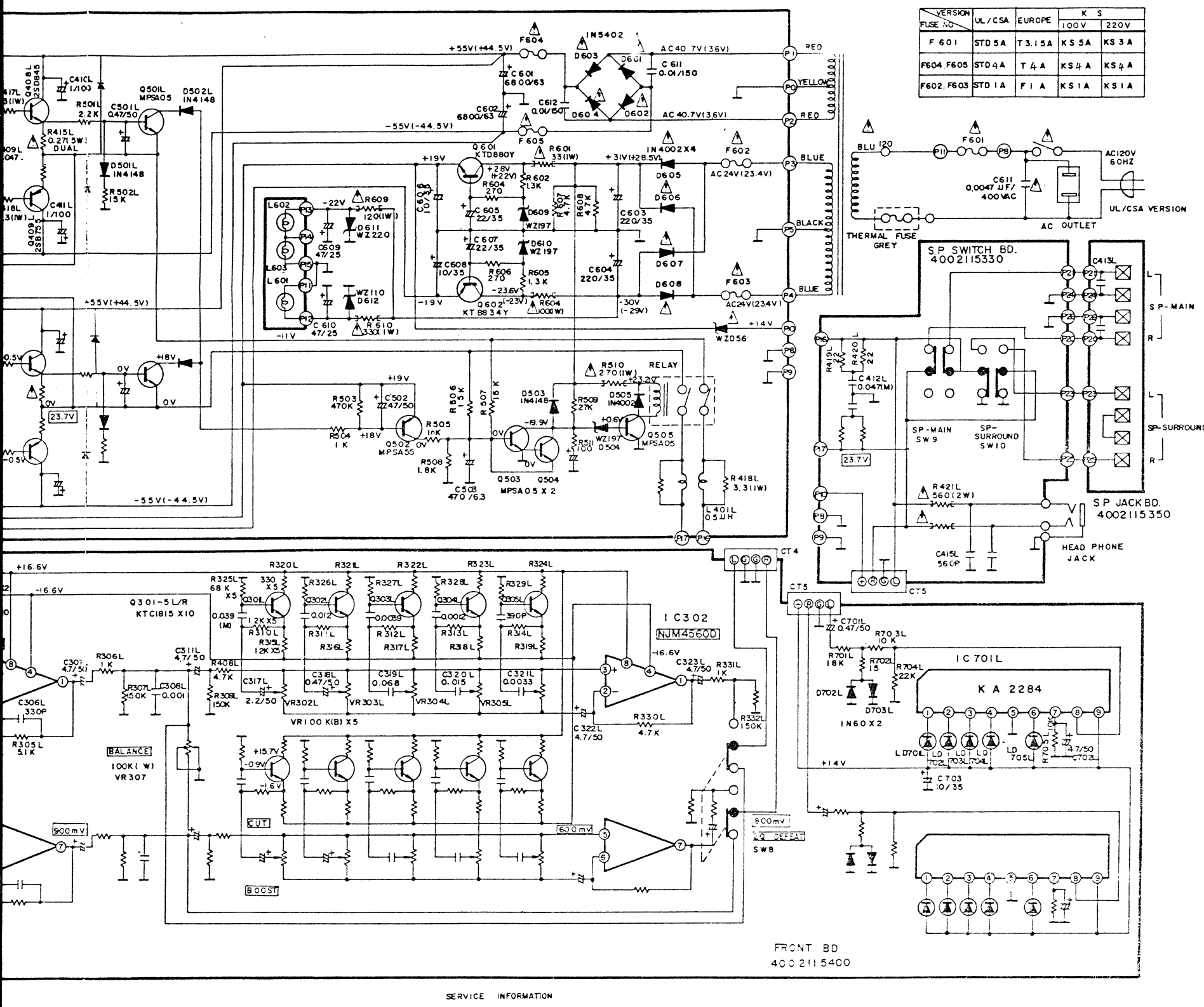
AD2

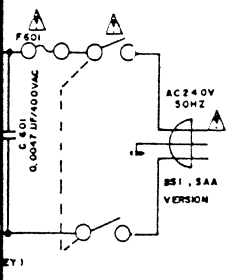


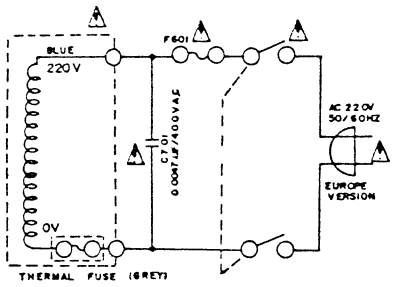


ematic Diagram
AD233

VERSION / FUSE NO	UL/CSA	EUROPE	K S 100V	K S 220V
F 601	STD 5A	T 3.15A	KS 5A	KS 3A
F604. F605	STD 4A	T 4A	KS 4A	KS 4A
F602. F603	STD 1A	F 1A	KS 1A	KS 1A



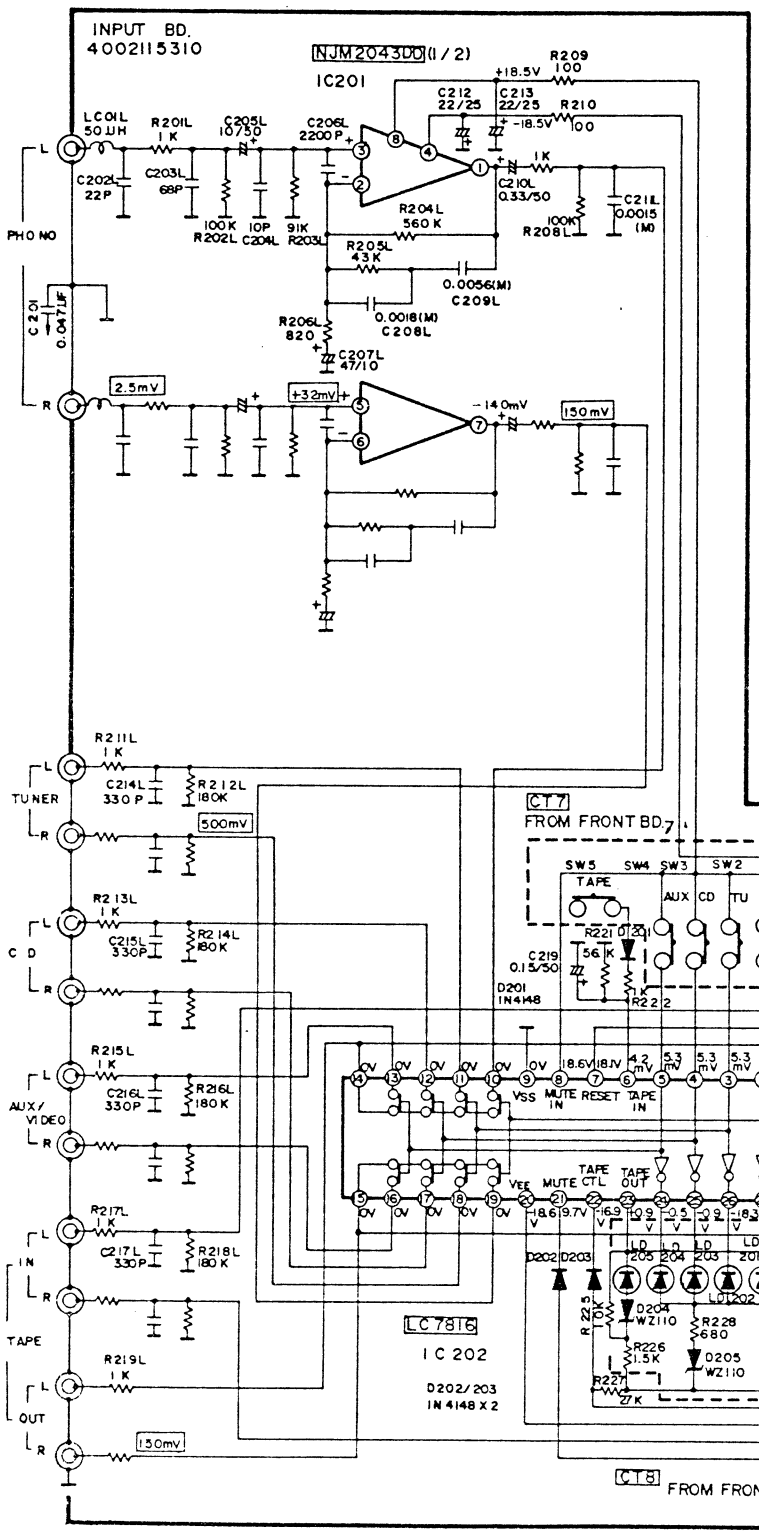


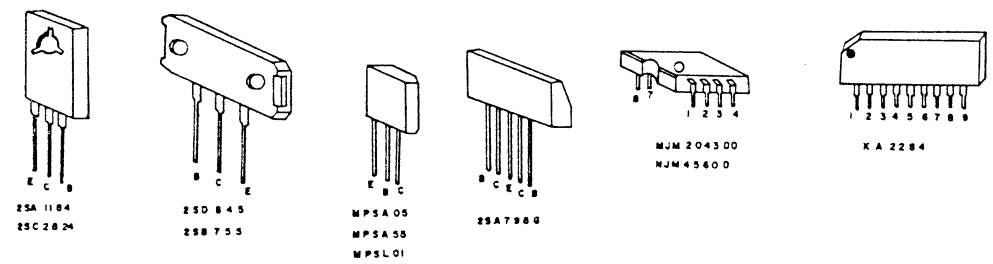


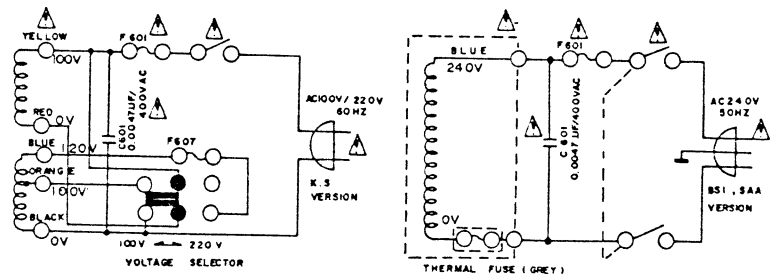
SERVICE INFORMATION

1. RESISTANCE VALUES ARE INDICATED IN OHMS UNLESS OTHERWISE SPECIFIED (K=1,000 M=1,000,000)
2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED (P=MICRO-MICROFARADS)
3. COMPONENT VALUES ARE SUBJECT TO CHANGE WITHOUT NOTICES
4. ALL VOLTAGES ARE REFERENCED TO GROUND UNDER THE FOLLOWING CONDITIONS
   D C : NO SIGNAL EXCEPT WHERE INDICATED.
   [A C] : R M S (AT 1KHZ, 8 OHM LOAD, FULL SIGNAL)
5. [PRECAUTIONS]
   A) ALL REPLACEMENT COMPONENTS IDENTIFIED BY -⚠- MUST BE REPLACED ONLY WITH ORIGINAL TYPE SPECIFIED BY THE MANUFACTURER AND INSTALLED AS THE ORIGINAL WITH SPACERS AND POSITIONED AWAY FROM ADJUCENT COMPONENTS WHERE APPLICABLE.
   B) ALL SOLDERING MUST BE DOWN IN A PROFESSIONAL MANNER USING SOLDER WITH ROSIN CORD ONLY.
   C) ALL COVERS, SHIELDS AND INSULATING SPACERS MUST BE REPLACED BEFORE RETURNING APPLIANCE TO CUSTOMER
   D) A DAMAGED POWER SUPPLY CORD MUST BE REPLACED BEFORE RETURNING APPLIANCE CUSTOMER
   E) A DIELECTRIC TEST CONSISTING OF 1080V AC 60HZ IS TO BE APPLIED BETWEEN BOTH BLADES OF THE POWER SUPPLY CORD ATTACHMENT PLUG AND THE EXPOSED CONDUCTIVE SURFACE OF THE APPLIANCE FOR A PERIOD OF NOT LESS THAN ONE SECOND BEFORE RETURNING APPLIANCE TO CUSTOMER
6. THE ⏦ MARKED RESISTORS ARE MOUNTED ABOVE THE P.C.B. ON SLEEVES.

Schematic Dia
AD244



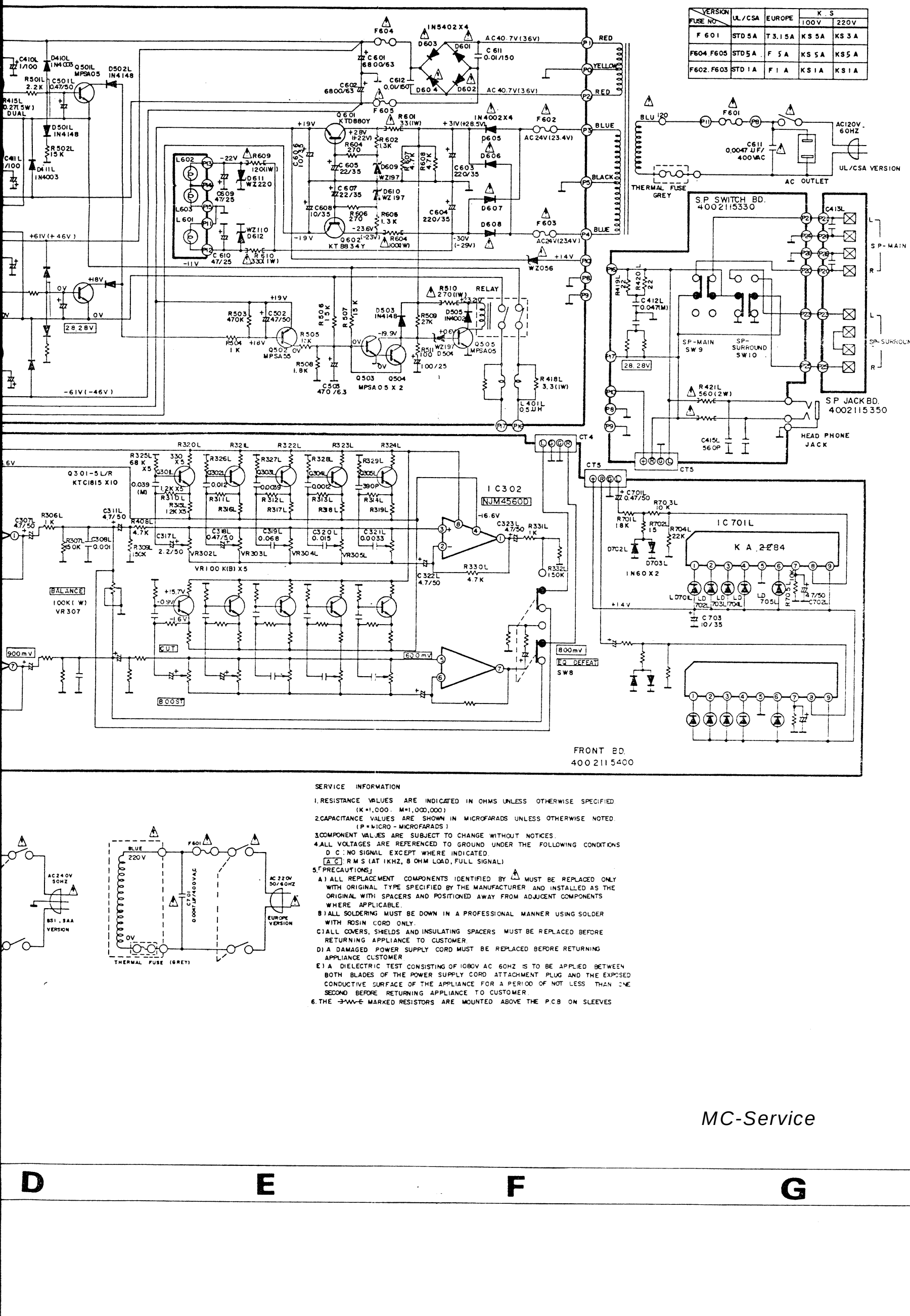




MC-Service

atic Diagram
AD244

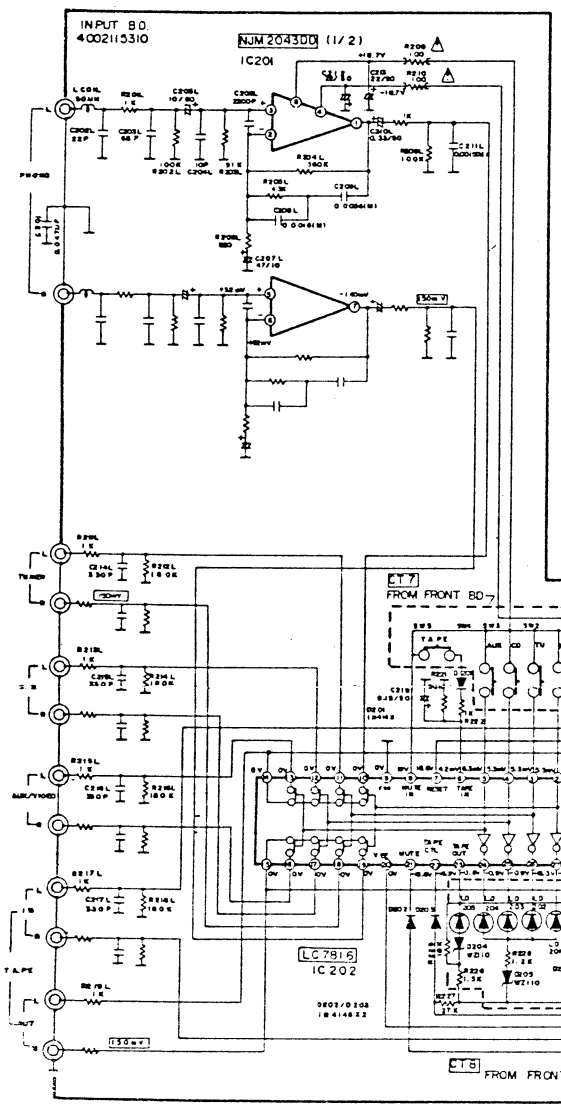
VERSION / FUSE NO	UL/CSA	EUROPE	K.S	
			100V	220V
F 601	STD 5A	T 3.15A	KS 5A	KS 3A
F604. F605	STD 5A	F 5A	KS 5A	KS 5A
F602. F603	STD 1A	F 1A	KS 1A	KS 1A

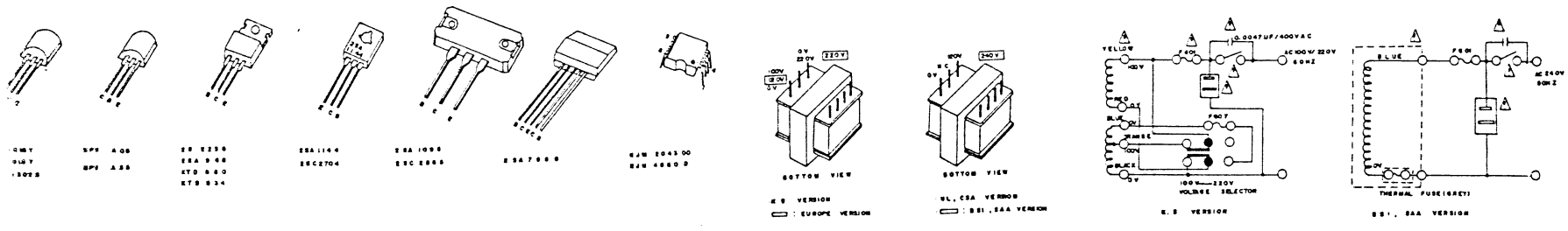


SERVICE INFORMATION

1. RESISTANCE VALUES ARE INDICATED IN OHMS UNLESS OTHERWISE SPECIFIED (K=1,000. M=1,000,000)
2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICROFARADS)
3. COMPONENT VALUES ARE SUBJECT TO CHANGE WITHOUT NOTICES.
4. ALL VOLTAGES ARE REFERENCED TO GROUND UNDER THE FOLLOWING CONDITIONS
   D C : NO SIGNAL EXCEPT WHERE INDICATED.
   [A C] : R M S (AT 1KHZ, 8 OHM LOAD, FULL SIGNAL)
5. [PRECAUTIONS]
   A) ALL REPLACEMENT COMPONENTS IDENTIFIED BY ⚠ MUST BE REPLACED ONLY WITH ORIGINAL TYPE SPECIFIED BY THE MANUFACTURER AND INSTALLED AS THE ORIGINAL WITH SPACERS AND POSITIONED AWAY FROM ADJUCENT COMPONENTS WHERE APPLICABLE.
   B) ALL SOLDERING MUST BE DOWN IN A PROFESSIONAL MANNER USING SOLDER WITH ROSIN CORD ONLY.
   C) ALL COVERS, SHIELDS AND INSULATING SPACERS MUST BE REPLACED BEFORE RETURNING APPLIANCE TO CUSTOMER.
   D) A DAMAGED POWER SUPPLY CORD MUST BE REPLACED BEFORE RETURNING APPLIANCE CUSTOMER.
   E) A DIELECTRIC TEST CONSISTING OF 1080V AC 60HZ IS TO BE APPLIED BETWEEN BOTH BLADES OF THE POWER SUPPLY CORD ATTACHMENT PLUG AND THE EXPOSED CONDUCTIVE SURFACE OF THE APPLIANCE FOR A PERIOD OF NOT LESS THAN ONE SECOND BEFORE RETURNING APPLIANCE TO CUSTOMER.
6. THE ⊣WW⊢ MARKED RESISTORS ARE MOUNTED ABOVE THE P.C.B ON SLEEVES

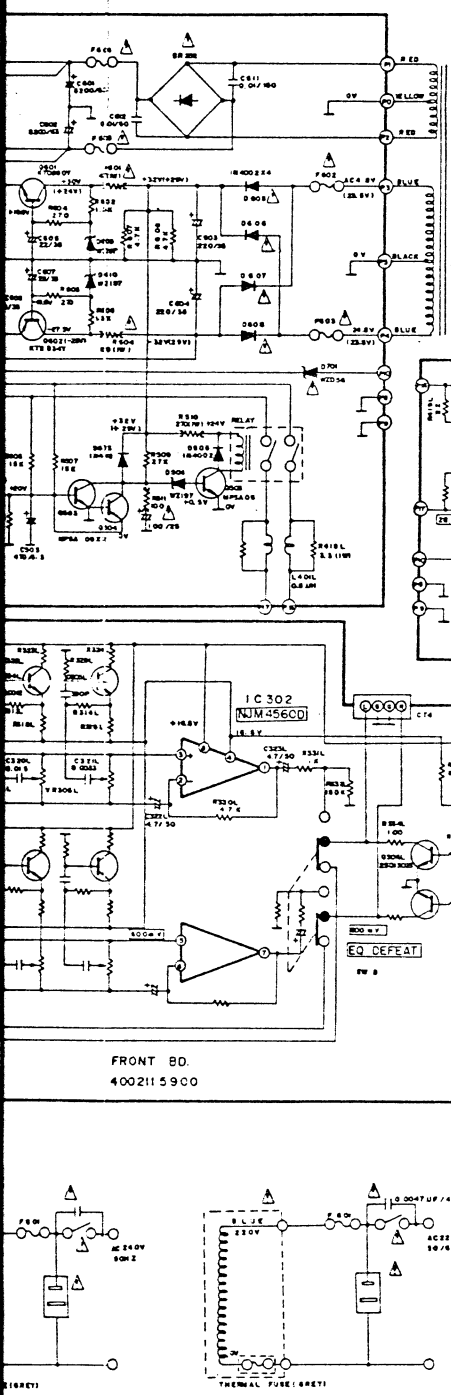
Schematic Di
AD255



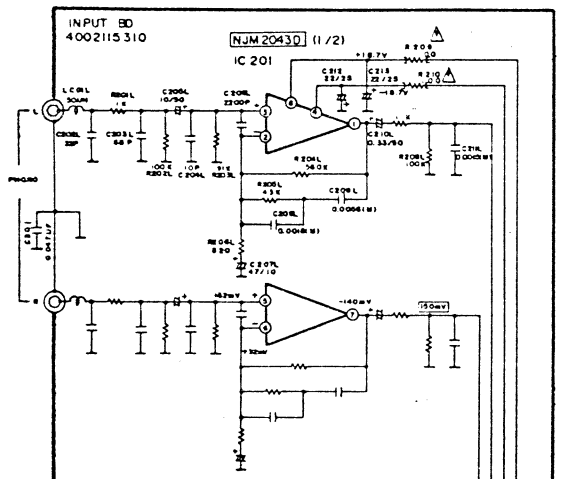


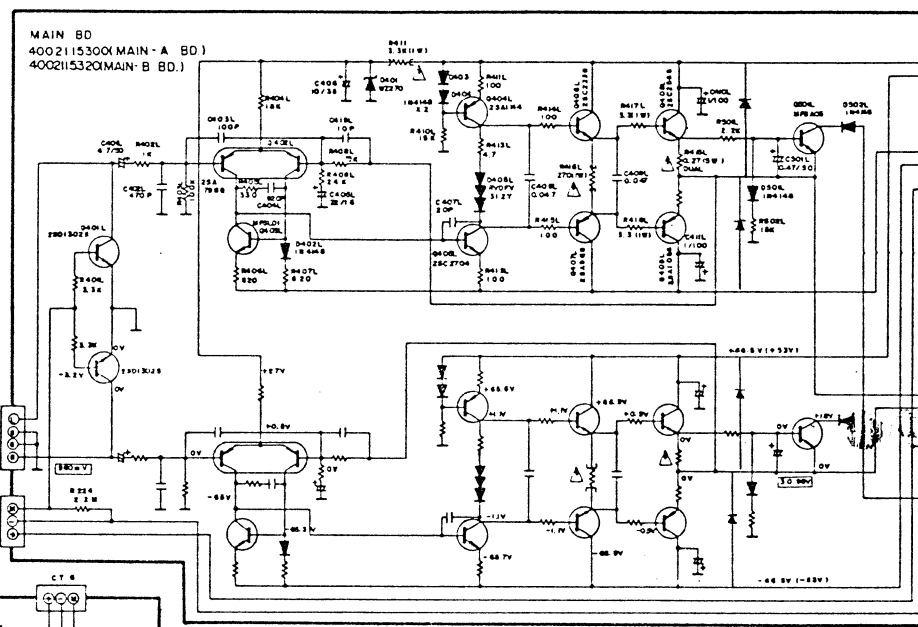
MC-Service

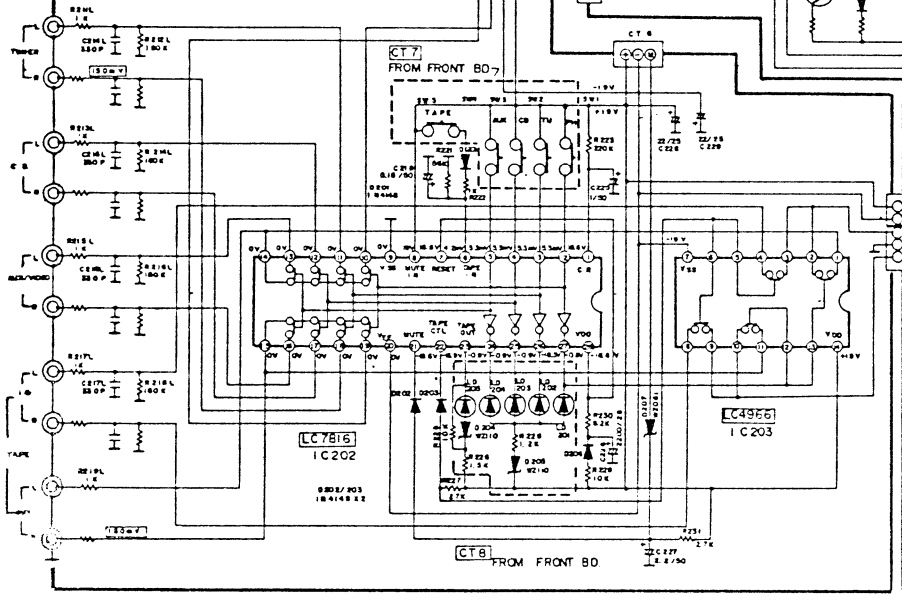
matic Diagram
AD255R

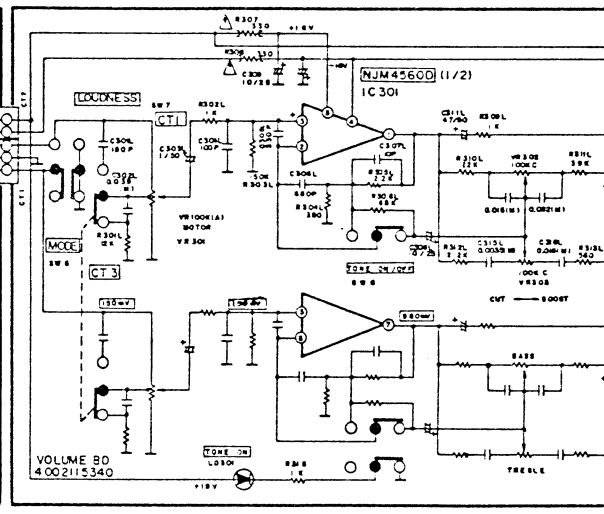


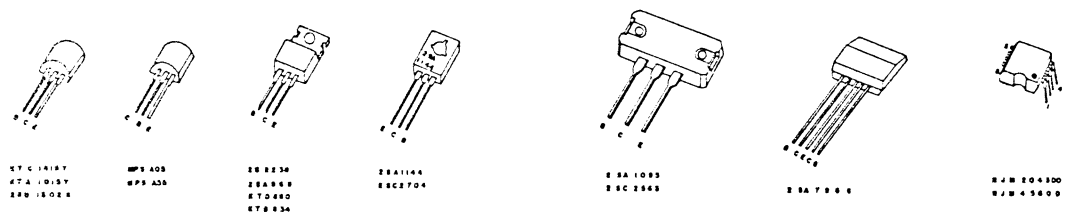
Schematic Di
AD266

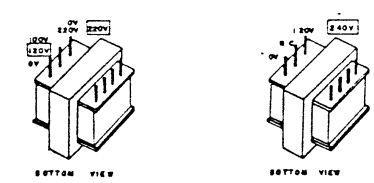






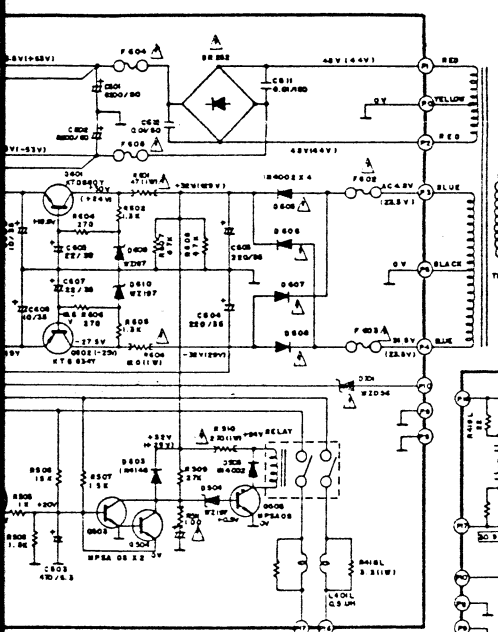




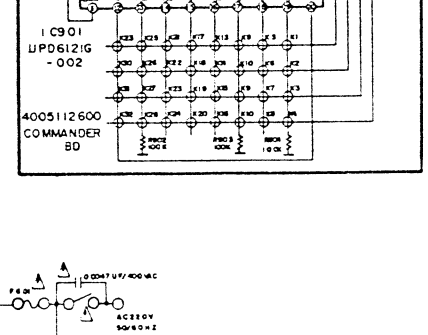


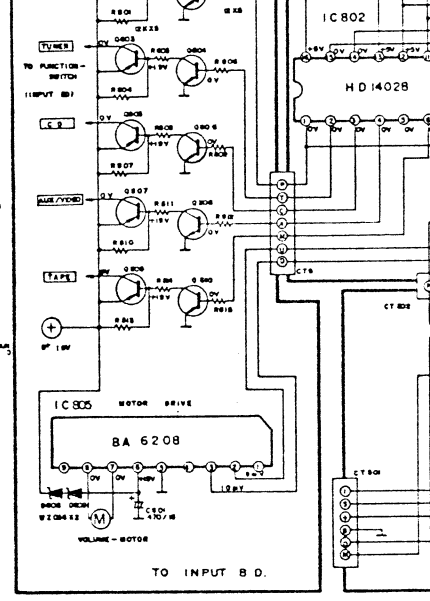
MC-Service

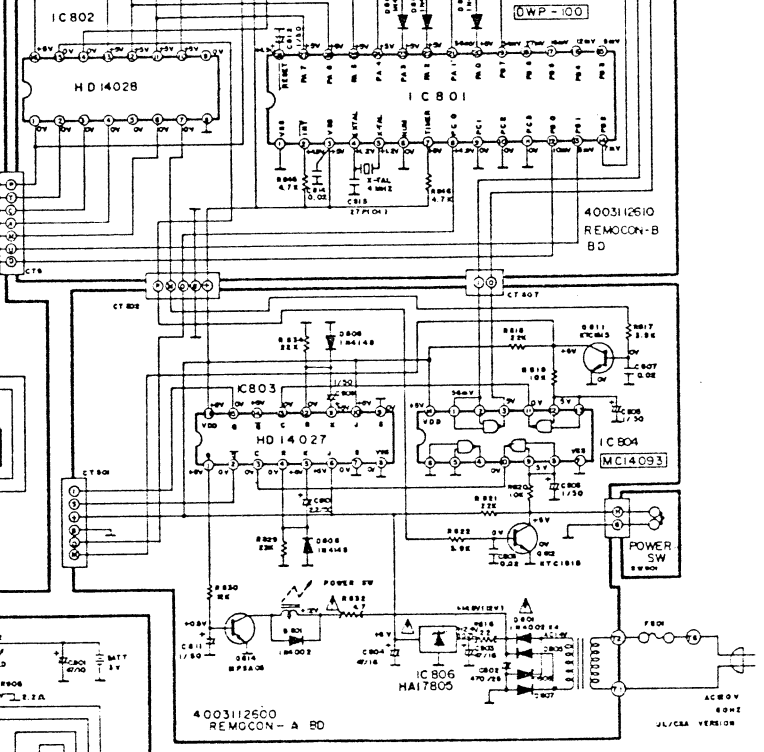
natic Diagram
AD266R

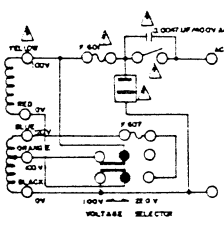


VERSION / FUSE NO	UL/ CSA	EUROPE	E S	
			100 V	220V
F 601	STD 7A	T4A	2S7A	2S4A
F604 , 7603	STD 7A	T 6.3A	2S7A	1S7A
F 602 , 7603	STD 1A	F 1 A	2S1A	2S1A
F 601	2S0.35A	T 200 m A	2S0.25A	2S0. 25A

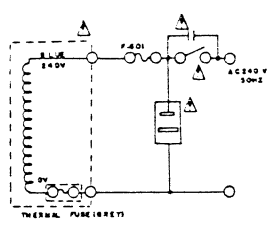




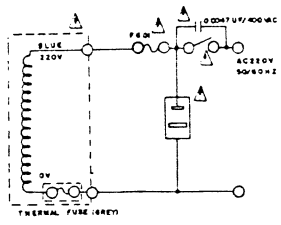




E S VERSION



BSI , SAA VERSION



EUROPE VERSION

MC-Service